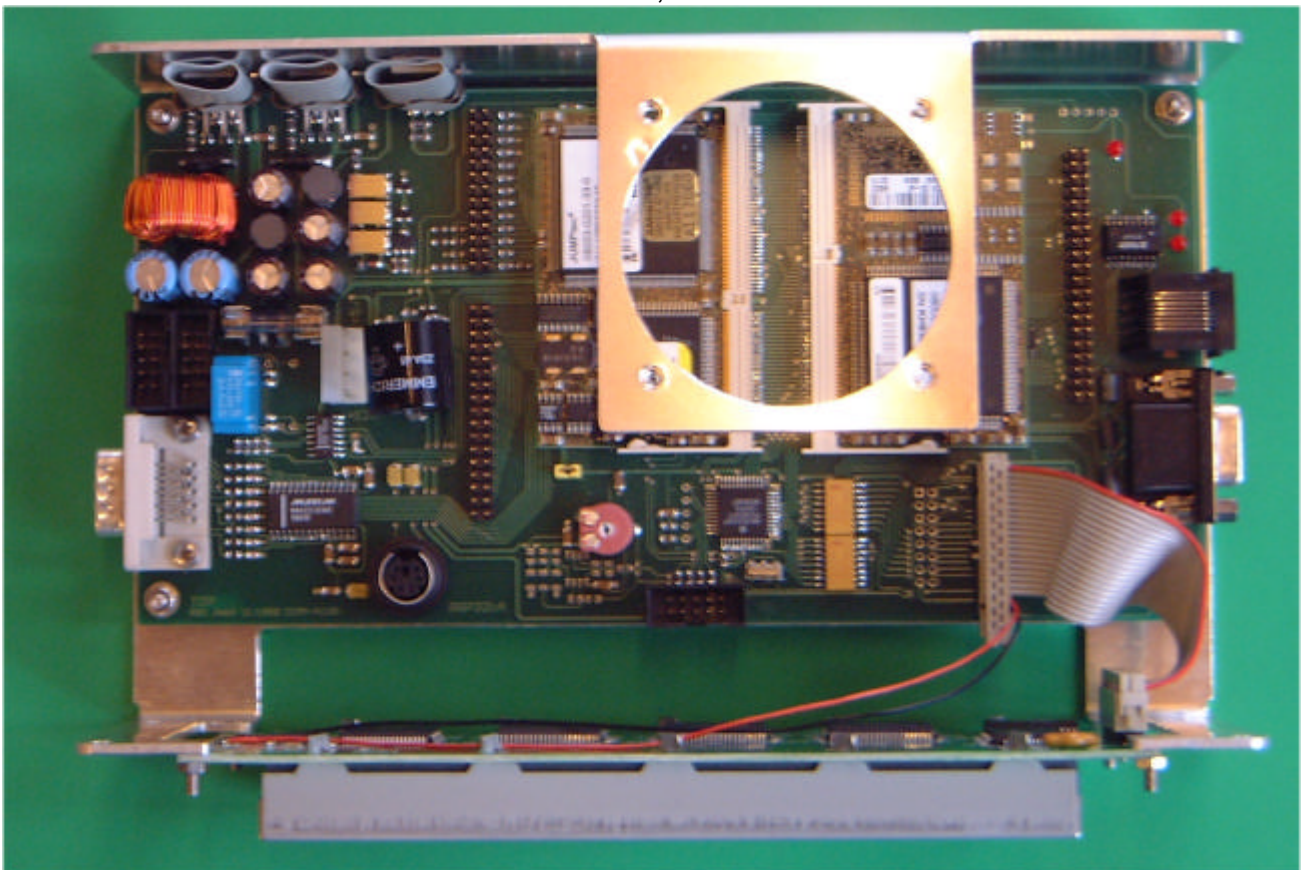
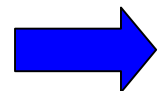


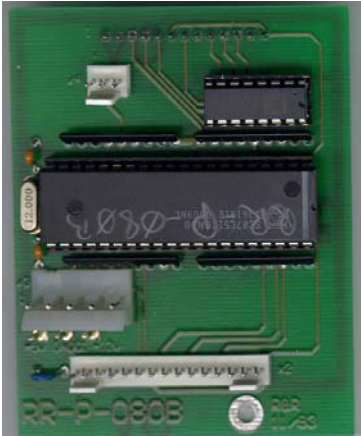
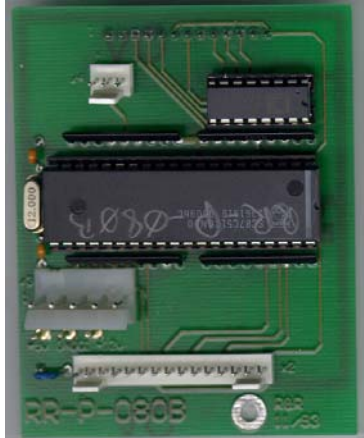
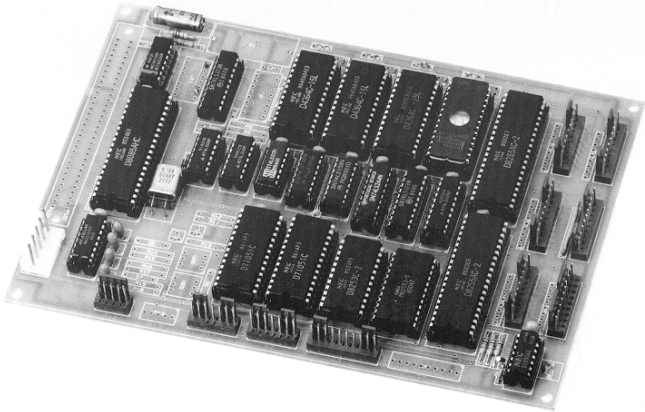
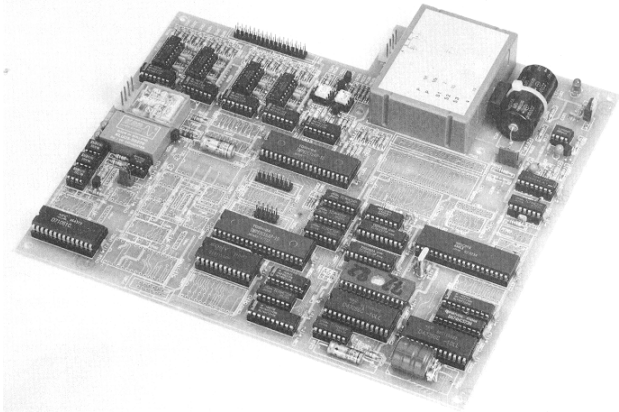



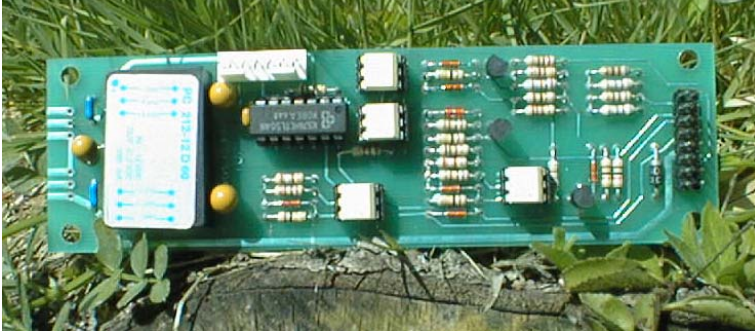
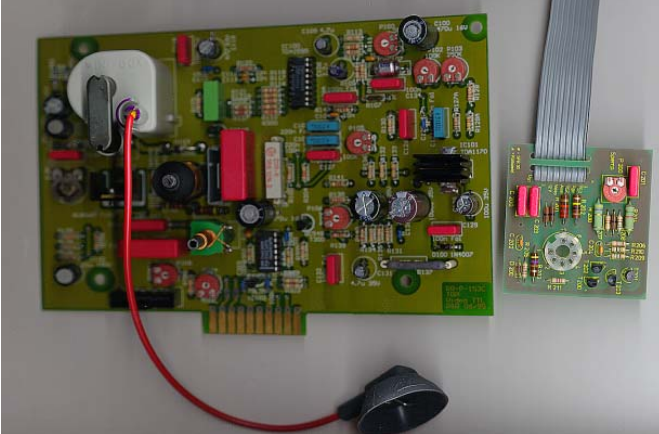

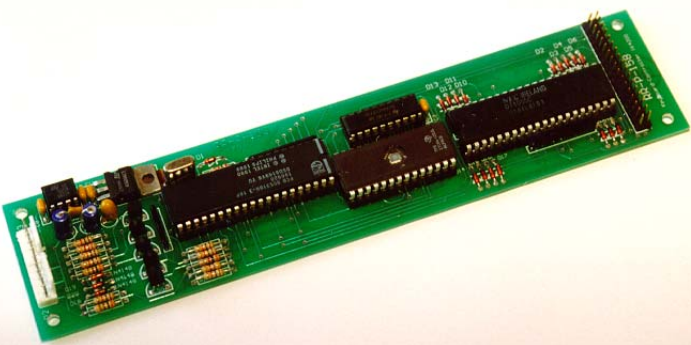
R&R printed circuit boards

keyboard controller, track ball controller, interface boards
interface converter, controller boards



Art.-Nr.	Bezeichnung	Bild
1073	Grafikkarte PCI Doppel LVDS VAM8 zu IM110-5/7 2MB L6210 1 x VGA Analog	
1212	Grafikkarte PCI Doppel-LVDS 2MB VAM8 LM151X2 LANR 6473	
1063	Grafikkarte PCI SVGA/XGA LVDS zu LQ15X01W Trident-9385 Chipset LANR 6171	
590	RR-P-080B AT R&R keyboard controller (WxHxD) 80 x 65 x 10 mm CPU 87C51 interface AT data sheet DNR 7423	

Art.-Nr.	Bezeichnung	Bild
589	RR-P-080B parallel R&R keyboard controller (WxHxD) 80 x 65 x 10 mm CPU 87C51 interface 8 bit parallel data sheet DNR 7423	
47	RR-P-101 R&R Operational Data Acquisition-Computer (W x H) 200 x 140 mm 1 x 16 or 2 x 16 characters Display keyboard interface max. 4 serial interfaces real-time clock NiCd-Akku max. 72 I/O-lines for inputs and outputs data sheet DNR 2472	
46	RR-P-126 R&R Operational Data Acquisition Computer (W x H) 248 x 230 mm 16 optically decoupled outputs 2 serial interfaces real-time clock, NiCd-Akku 1 relay output 1 debounced counter input 1 optically decoupled digital output keyboard interface display 1 x 16 or 2 x 16 characters power supply 230 V AC data sheet 2473	
70	RR-P-136 R&R AT Keyboard controller (W x H) 150 x 47 mm 8 special keys (Ctrl, Shift, ...) 4 LED (power, num-lock, scroll-lock, caps-lock) matrix 8 x 16 watchdog, powerfail data sheet DNR 4090	

Art.-Nr.	Bezeichnung	Bild
446	<p>RR-P-139</p> <p>R&R Level converter (W x H) 137 x 40,5 mm TTL-Level to RS 232 C 20 mA active and passive plug 1-row / 7-pin plug 2-row / 16-pin data sheet DNR 6698</p>	
155	<p>RR-P-153 / RR-P-135 monochrom Videoplatine für 12" Bildröhren 50 / 60 Hz Bildwechselfrequenz 15625 / 15750 Hz Zeilenfrequenz TTL-Eingang Datenblatt DNR 6023</p>	
143	<p>RR-P-156</p> <p>R&R Level converter (W x H) 80 x 47 mm TTL-Level to RS 232 C 20 mA active and passive plug 1-row / 7-pin plug 2-row / 16-pin data sheet DNR 4092</p>	
153	<p>RR-P-158</p> <p>R&R Keyboardcontroller DEC VT 420 compatible (W x H) 209,5 x 48 mm 8 bit microcontroller max. 16 kB Eprom without LED appr. 60 mA connections for 8 special keys, 8 x 16 matrix 2 LED, 1 Piezo-Summer plug 2-row/ 34-pin 2 plug 1-row / 5-pin data sheet DNR 4091</p>	

R&R pcbs

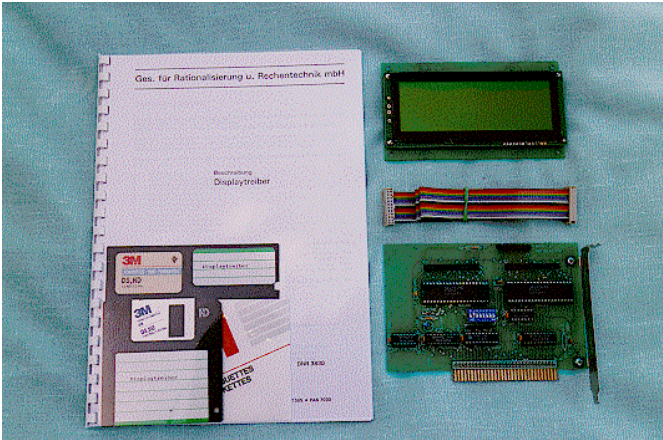

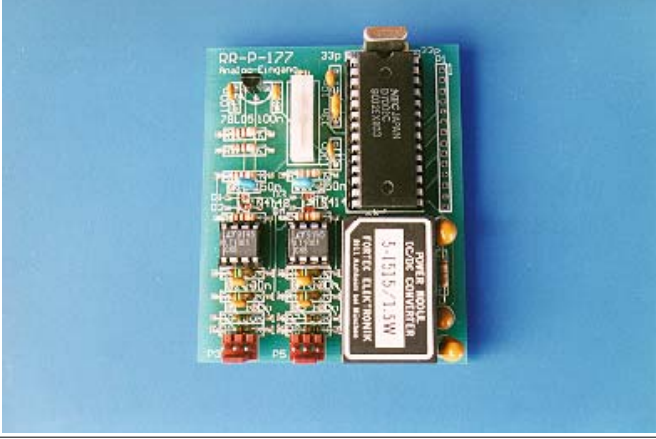

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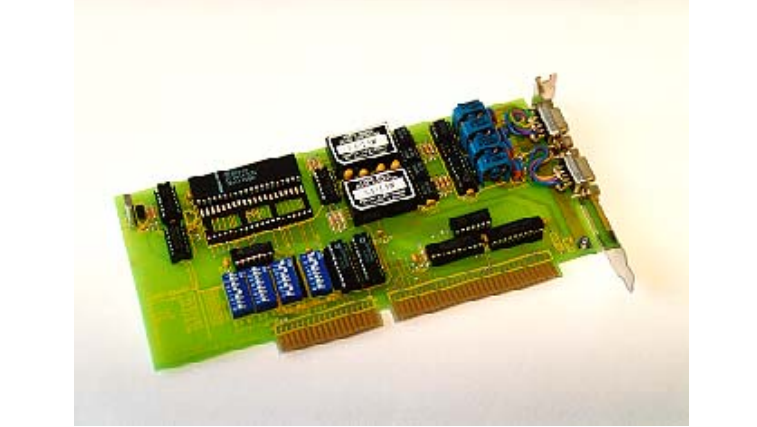
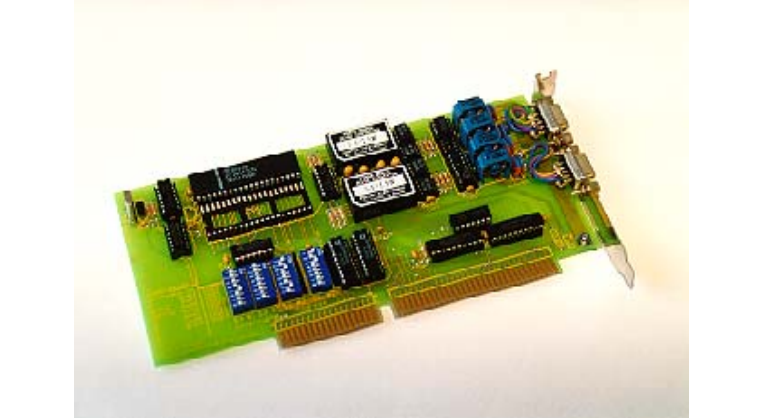
www.RuRGmbH.de info@RuRGmbH.de

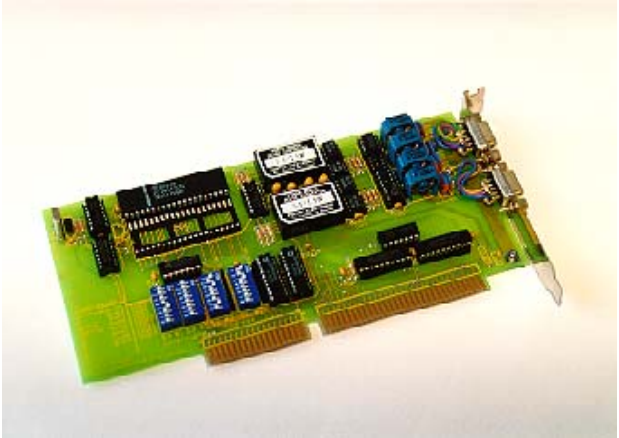
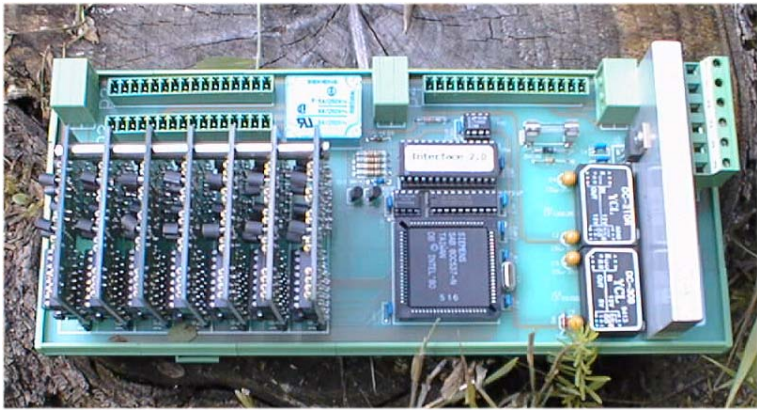
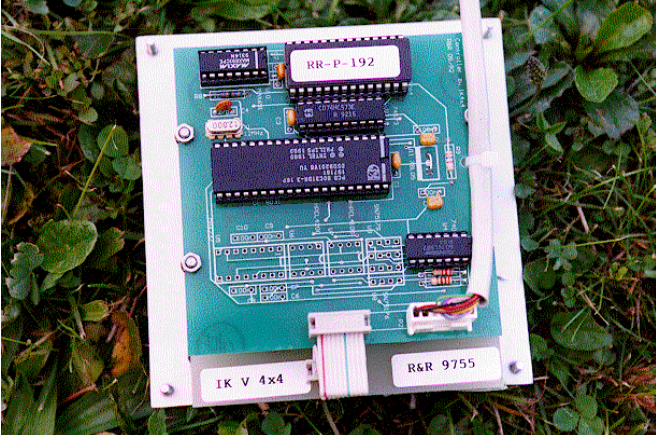
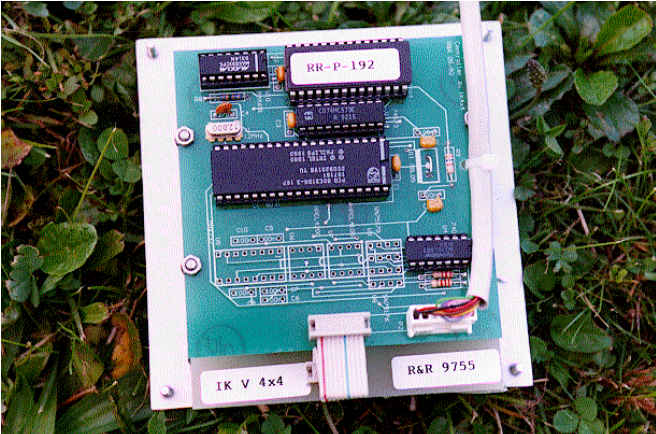
Ob der Eck 4 78148 Gütenbach Telefon (07723) 9186-0 Fax -30

Kreissparkasse Tuttlingen (BLZ64350070) 392


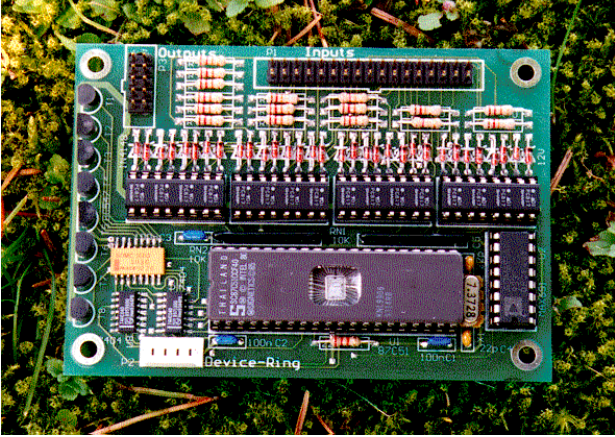

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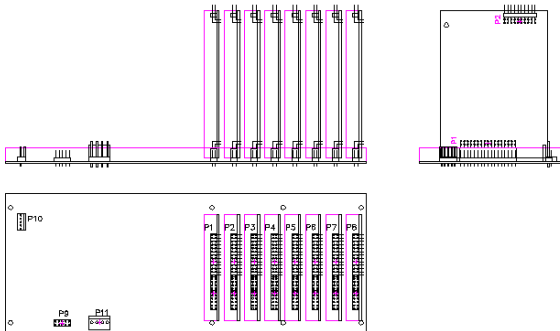
Art.-Nr.	Bezeichnung	Bild
130	<p>RR-P-166/167</p> <p>R&R Display-Kit RR-P-166 Displaycontroller RR-P-167 Parallelportkarte LC-Display 4 rows 8 mm font height incl. driver software for DOS only text mode data sheet DNR 4121</p>	
129	<p>RR-P-167</p> <p>R&R Parallel I/O-Card short 8 BIT plug-in card, ISA-bus 48 Ein/outputs TTL-Level 2 x 34-pin post connectors 1 x 20-pin post connectors application area driving of LCD-modules driving of LED read-in of DIL-switches data sheet DNR 4120</p>	
131	<p>RR-P-177</p> <p>analog-input expansion card for RR-P-101, RR-P-126 (B x H x T) 75 x 61 x 30 mm 2 inputs 0 - 10 V / 10 bit max. 200 samples / s accuracy 0,5% (calibrated) data sheet DNR 4122</p>	
109	<p>RR-P-179 1 x RS485, 1 x RS422</p> <p>R&R Net manager isolated intelligent interface PCB 1 1/2 long plug-in card ISA-bus real-time clock battery buffered RAM interrupt and address adjustable 9600 baud data sheet DNR 4088</p>	



Art.-Nr.	Bezeichnung	Bild
66	<p>RR-P-179 2 x RS422</p> <p>R&R Net manager isolated intelligent interface PCB 1 1/2 long plug-in card ISA-bus real-time clock battery buffered RAM interrupt and address adjustable 9600 baud data sheet DNR 4088</p>	
108	<p>RR-P-179 2 x RS485</p> <p>R&R Net manager isolated intelligent interface PCB 1 1/2 long plug-in card ISA bus real-time clock battery buffered RAM interrupt and address adjustable 9600 baud data sheet DNR 4088</p>	
111	<p>RR-P-180 1 x RS 422</p> <p>R&R isolated interface PCB 1 1/2 long plug-in card, ISA-bus freely configurable 110 to 115200 baud data sheet DNR 4087</p>	
110	<p>RR-P-180 2 x RS 422</p> <p>R&R isolated interface PCB ISA-bus 1 1/2 long freely configurable 110 to 115200 baud data sheet DNR 4087</p>	

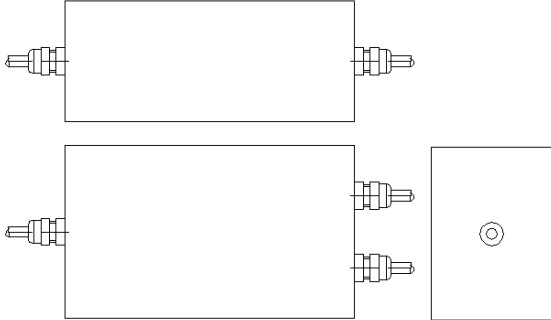
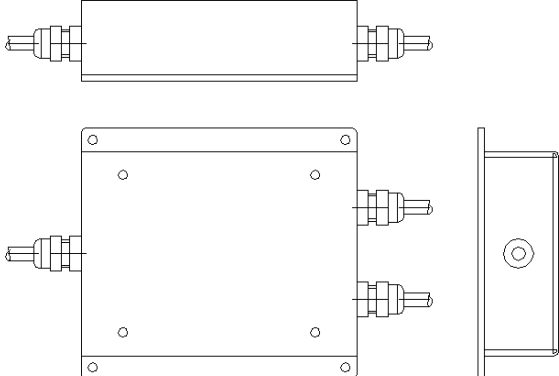
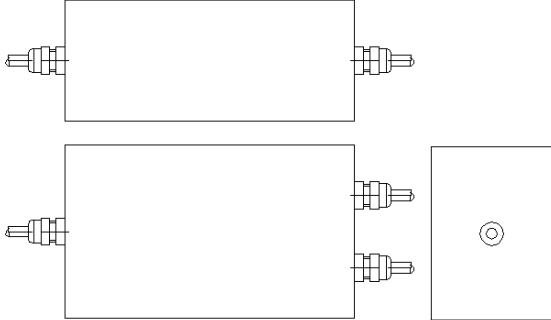
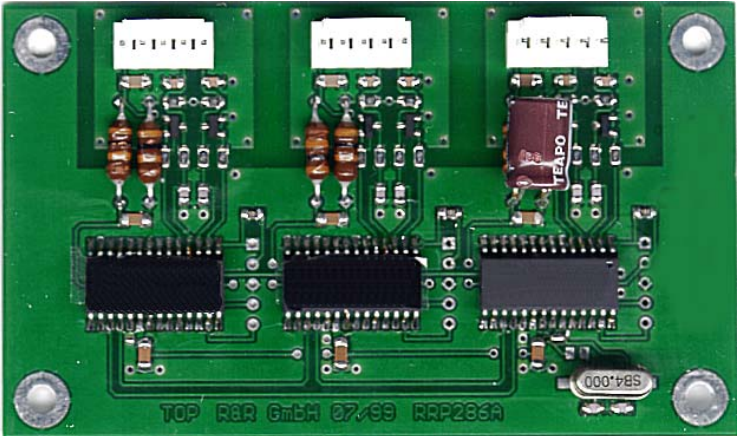
Art.-Nr.	Bezeichnung	Bild
39	<p>RR-P-180 2 x RS 485</p> <p>R&R isolated interface PCB ISA-bus 1 1/2 long freely configurable 110 to 115200 baud data sheet DNR 4087</p>	
497	<p>RR-P-190A/191 ISPS-2</p> <p>SPS-interface to IK401 RS422-interface pluggable screw terminals 26 transistor outputs 24V/380 mA short-circuit-proof 1 relay output power supply 24 V +/- 10 % appr. 320 mA power supply IK401 / ISPS-2 is isolated data sheet DNR 6946</p>	
115	<p>RR-P-192 20 mA</p> <p>R&R Keyboard-Controller asynchronous serial (W x H x D) 91 x 91 x 30 mm 80C31 with watchdog max. 16 kB EPROM matrix 4 x 4 data sheet DNR 4310</p>	
90	<p>RR-P-192 AT</p> <p>R&R Keyboard-Controller (W x H x D) 91 x 91 x 30 mm 80C31 with watchdog max. 16 kB EPROM matrix 4 x 4 data sheet DNR 4310</p>	

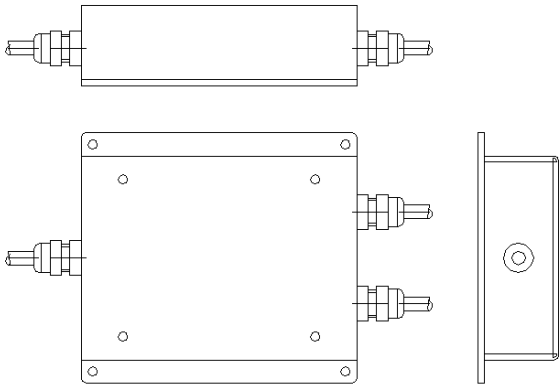
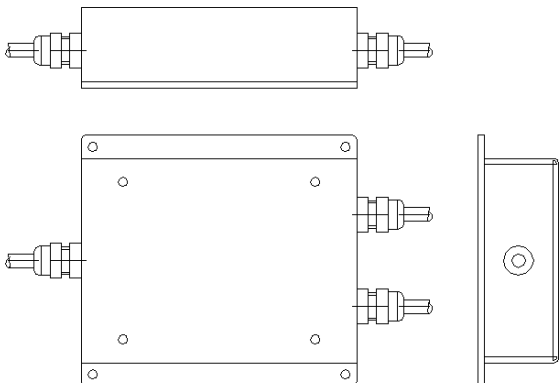
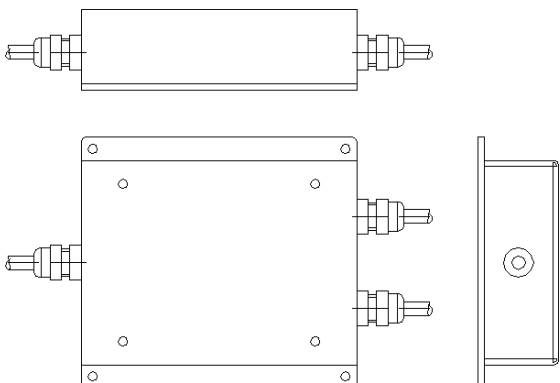
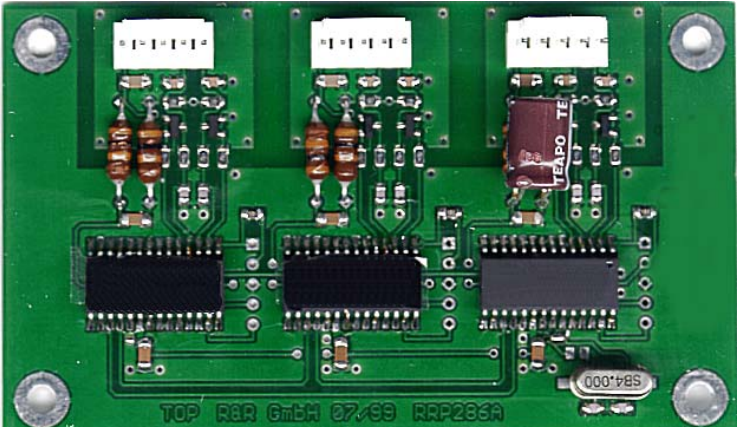
Art.-Nr.	Bezeichnung	Bild
113	<p>RR-P-192 RS232C</p> <p>R&R Keyboard-Controller asynchronous serial (W x H x D) 91 x 91 x 30 mm 80C31 with watchdog max. 16 kB EPROM matrix 4 x 4 data sheet DNR 4310</p>	
114	<p>RR-P-192 RS422</p> <p>R&R Keyboard-Controller asynchronous serial (W x H x D) 91 x 91 x 30 mm 80C31 with watchdog max. 16 kB EPROM matrix 4 x 4 data sheet DNR 4310</p>	
112	<p>RR-P-192 TTL-Level</p> <p>R&R Keyboard-Controller asynchronous serial (W x H x D) 91 x 91 x 30 mm 80C31 with watchdog max. 16 kB EPROM matrix 4 x 4 data sheet DNR 4310</p>	
138	<p>RR-P-194/195 RS422</p> <p>R&R SPS-interface DIN-EN carrier rails 35 mm (W x H x D) 110 x 180 x 145 mm 64 digital inputs 24 V 64 digital outputs 24 V max. 500 mA short-circuit-proof interface asynchronous serial options RS 485, RS 232 C, 20 mA data sheet DNR 4326</p>	

Art.-Nr.	Bezeichnung	Bild
62	<p>RR-P-220</p> <p>R&R Operational Data Acquisition-Computer Modular-Operational Data Acquisition-System (W x H x D) 160 x 100 x 30 mm CPU 80C537 with watchdog real-time clock 64 kB Programm, 64 kB Daten isolated RS 485 5 V /12 V DC data sheet DNR 5774</p>	
67	<p>RR-P-221</p> <p>R&R I/O-Device modular Operational Data Acquisition-System (W x H x D) 70 x 100 x 12 mm Controller 87C71 with watchdog 8 digital outputs 16 isolated digital inputs data sheet DNR 5775</p>	
135	<p>RR-P-254 AT</p> <p>R&R Keyboard controller (W x H) 150 x 50 mm 16 x 8 matrix connection by 26-pin plug keys must be separated by diodes n-key-roll-over watchdog 5 V +/- 10% data sheet DNR 5999</p>	
900	<p>RR-P-256 keyboard line driver PC-side / keyboard side data sheet DNR 6675</p>	

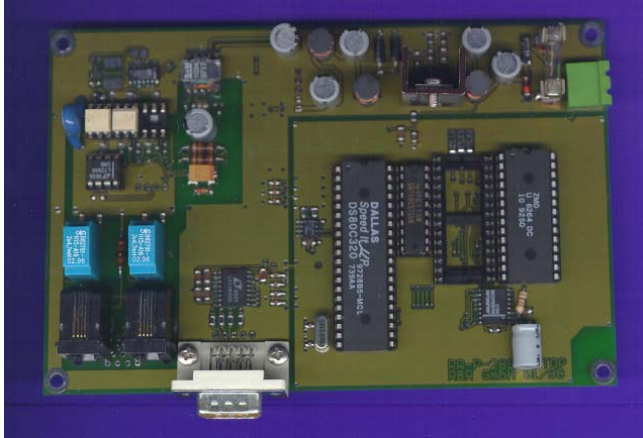
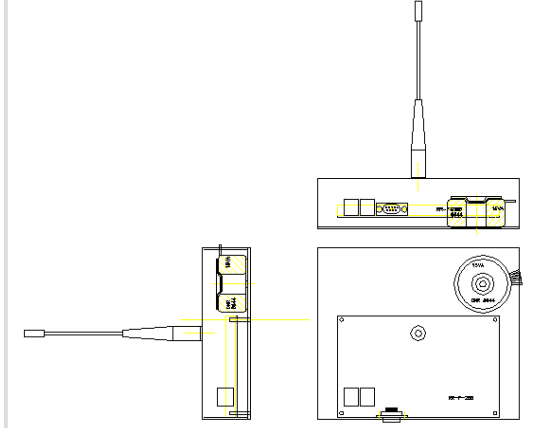
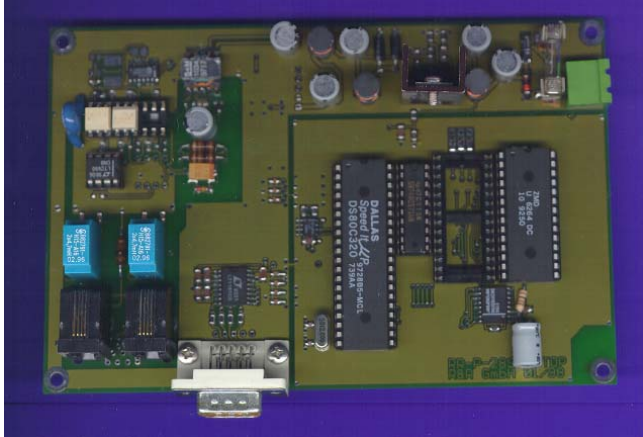
Art.-Nr.	Bezeichnung	Bild
901	RR-P-256 with power supply keyboard line driver keyboard side data sheet DNR 6675	
475	RR-P-271 RS485 Net manager 1 1/2 long XT/AT plug-in card ISA-bus I/O address free selectable to 38400 BAUD compatible to COMx 2 RS485 Stränge à 30 Unite with EMV-Filter plug 2 x 9-pin Sub-D-socket data sheet DNR 6833	
610	RR-P-282/284 Halteplatte mit Netzteil RR-P-274 (BxH) ca. 330x225 mm Ausgang: 24 V 4 A, 5 V 1 A stabilisiert Eingang: 180 bis 264 V AC Datenblatt DNR 7508	
569	RR-P-282/284 64 x IN / 64 x Out RS485 R&R Control PCB 64 digital outputs open collector 64 digital inputs 24V Level by V24 interface programmable data sheet DNR 7232	

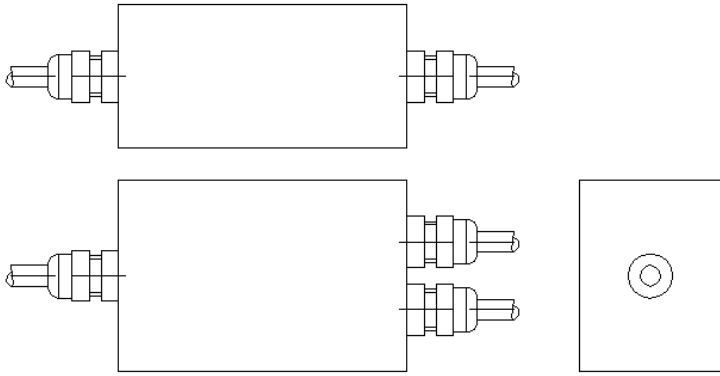
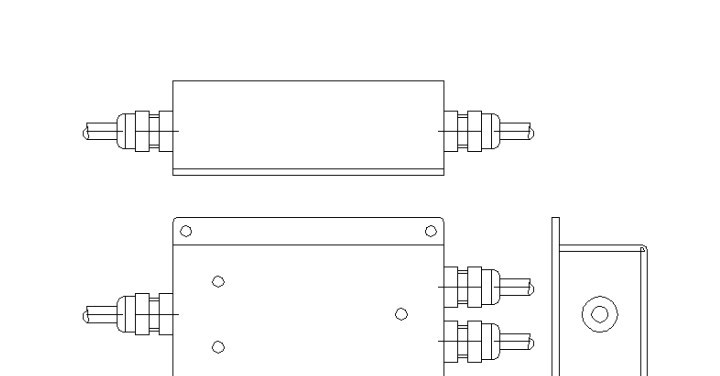
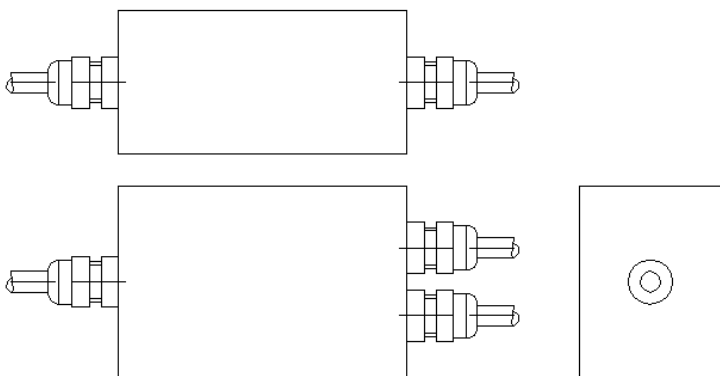
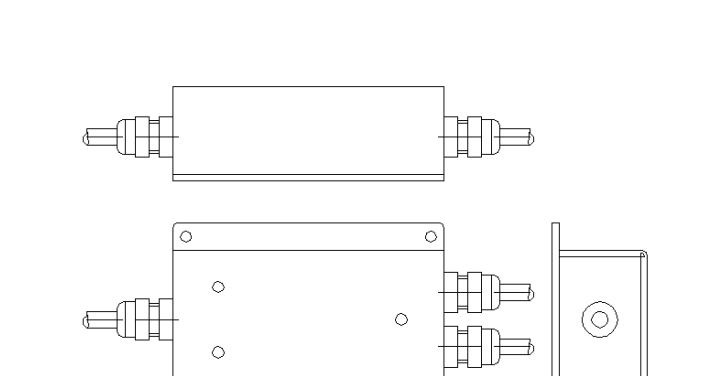
Art.-Nr.	Bezeichnung	Bild
659	RR-P-284 version 1 plugable pcb for programmble controller RR-P-282 8 x Output Open-Collector 24V/500mA 8 Input 0V/24V with interrupt on change function DNR 7640	
660	RR-P-284 versioent 2 plugable pcb for programmble controller RR-P-282 8 x Output Open-Collector 24V/500mA 8 Input 0V/24V DNR 7641	
661	RR-P-284 version 3 plugable pcb for programmble controller RR-P-282 8 x Output Open-Collector 24V/500mA 8 Input 0V/24V special functions reset, emergency stop enable, emergency stop disable DNR 7642	
551	RR-P-285 RS232C->RS422/RS485 R&R - interface adapter data sheet DNR 7593	

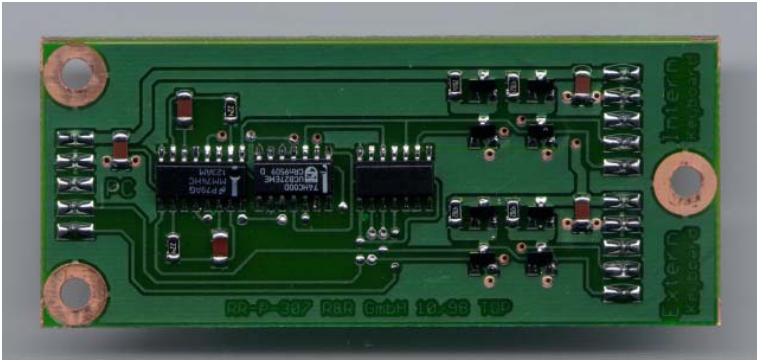
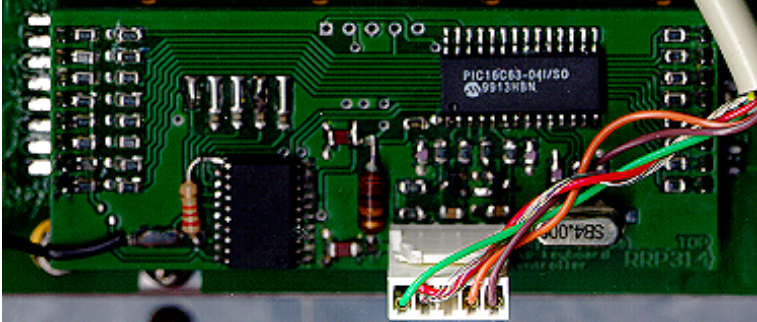
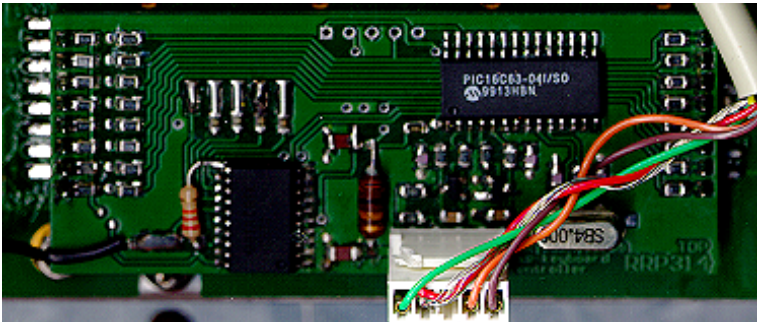
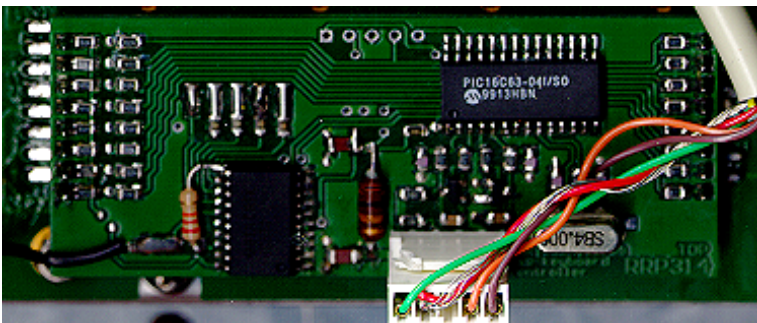
Art.-Nr.	Bezeichnung	Bild
822	RR-P-286 AT with plastic housing R&R µController based Keyboard Switch 3 x 8 bit microcontroller housing ABS black (W x H x D) 160 x 96 x 67 mm DIN 05 plugs data sheet DNR 8625	
816	RR-P-286 AT with metall housing R&R µController based Keyboard Switch 3 x 8 bit microcontroller (W x H x D) 120 x 109 x 35 mm Aluminium anodized DIN 05 plugs data sheet DNR 8613	
821	RR-P-286 PS2 with plastic housing R&R µController based Keyboard Switch 3 x 8 bit microcontroller housing ABS black (W x H x D) 160 x 96 x 67 mm MINI DIN 06 plugs data sheet DNR 8625	
820	RR-P-286 AT(PS2) R&R µController based Keyboard Switch 3 x 8 bit microcontroller (W x H) 94 x 78,8 mm molex plugs grid 2,54 mm data sheet DNR 8622	

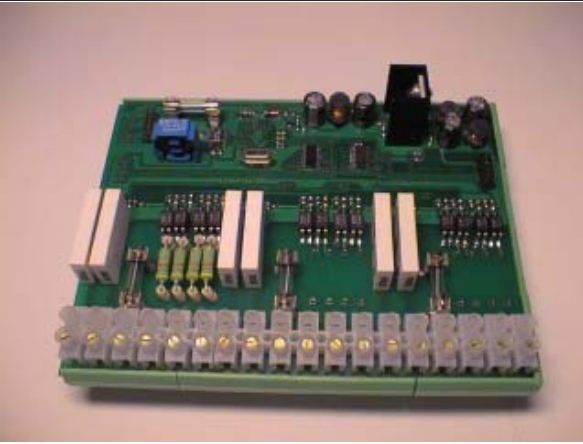
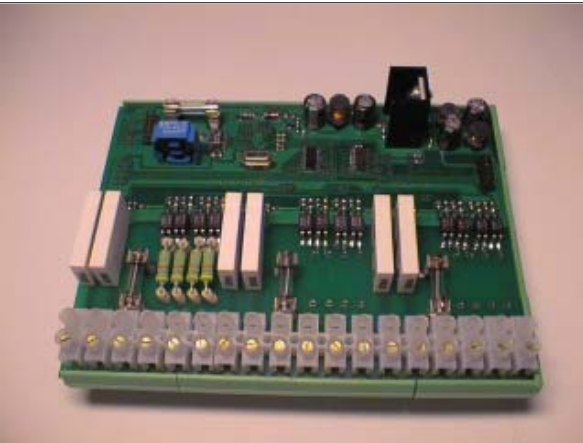
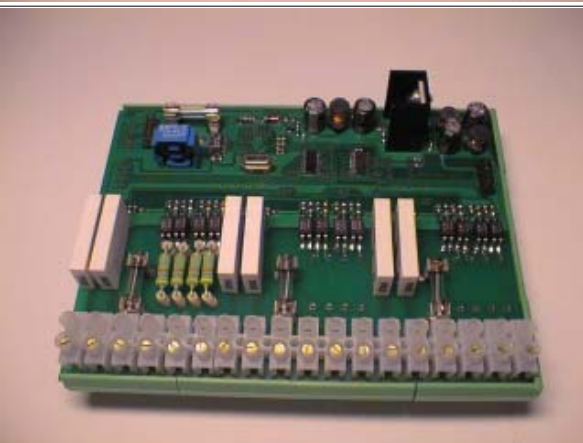
Art.-Nr.	Bezeichnung	Bild
1368	RR-P-286 AT with metall housing R&R µController based mouse Switch 3 x 8 bit microcontroller (W x H x D) 120 x 109 x 35 mm Aluminium anodized DIN 05 plugs data sheet DNR 9549	
817	RR-P-286 PS2 with metall housing R&R µController based Keyboard Switch 3 x 8 bit microcontroller housing Al anodized (W x H) 120 x 109 x 35 mm MINI DIN 06 plugs data sheet DNR 8613	
990	RR-P-286 PS2 with metall housing R&R µController based mouse Switch 3 x 8 bit microcontroller (W x H x D) 120 x 109 x 35 mm Aluminium anodized DIN 05 plugs data sheet DNR 9549	
1297	RR-P-286 AT (PS2) R&R µController based Keyboard Switch 3 x 8 bit microcontroller (W x H) 94 x 78,8 mm molex plugs grid 2,54 mm data sheet DNR 8622	


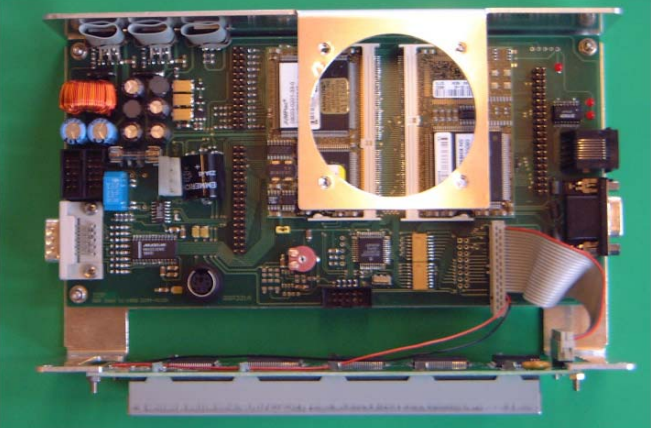
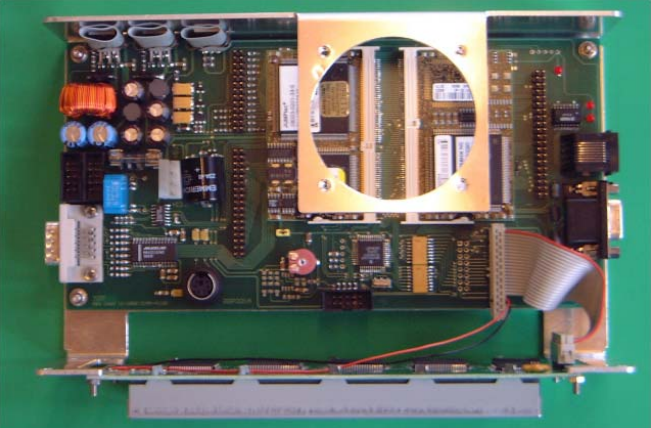

Art.-Nr.	Bezeichnung	Bild
1371	RR-P-288 Koppelmodul RS485 / Analog-Modem BDE-Systeme R&R Protokollumsetzer Metallgehäuse Front- und Rückwand Al eloxiert (BxHxT) ca. 280x120x45 mm Stromversorgung 230 V DC automatische Einwahl	
652	RR-P-288 RS232C <-> RS422/RS485 R&R Protokollumsetzer Stromversorgung 24 V DC Datenblatt DNR 7592	
643	RR-P-288 RS232C <-> RS485 R&R Protokollumsetzer Stromversorgung 24 V DC Datenblatt DNR 7592	
1011	RR-P-288 RS485 <-> RS422 R&R Modulmanager Stromversorgung 24 V DC Datenblatt DNR 7592	

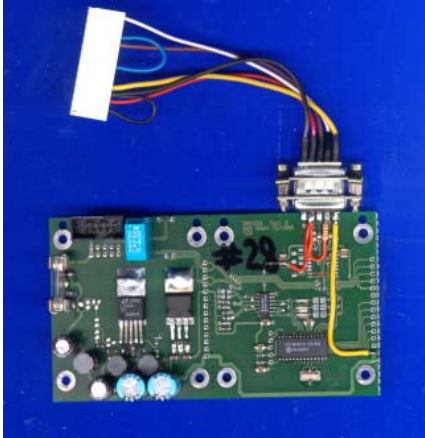

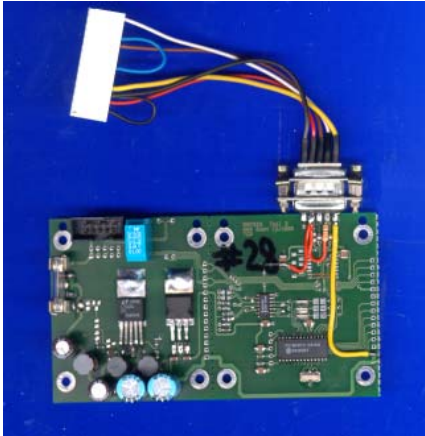
Art.-Nr.	Bezeichnung	Bild
784	RR-P-288-1 RS232C <-> RS422/RS485 im Gehäuse R&R Protokollumsetzer Aluminiumgehäuse eloxiert (BxHxT) ca. 280x120x45 mm Stromversorgung 230 V DC Datenblatt DNR 8341	
1020	RR-P-288-2 RS232C <-> 433 MHz R&R Funkserver Tischgehäuse Aluminium eloxiert (BxHxT) ca. 300x170x50 mm Stromversorgung 230 V DC 15 Kanäle elektrifizierbar (davon 5 / Raum) bis zu 32 Geräte / Server Datenblatt DNR 9741	
1435	RR-P-288-3 (RS232C/RS422) <-> RS422/RS485 240 Watt R&R Protokollumsetzer Gehäuse Aluminium eloxiert ca. 250 x 235 x 90 mm Stromversorgung 230 VAC / 240 Watt Datenblatt DNR 11191	
1000	RR-P-299 RS232C/PS2 Maus-Umsetzer	

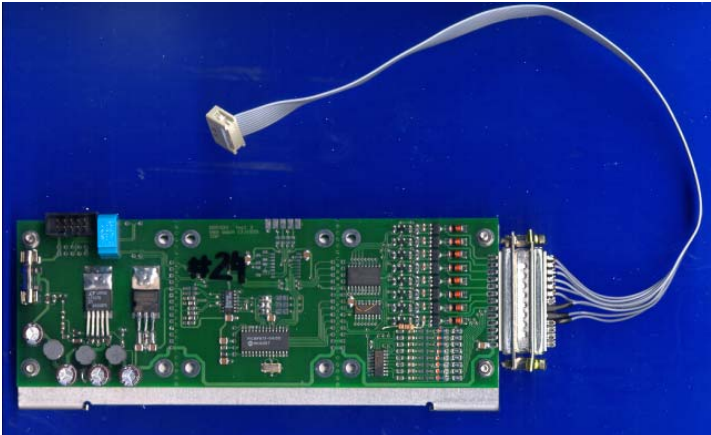


Art.-Nr.	Bezeichnung	Bild
823	RRP307 AT keyboard switch with plastic housing ABS black (WxHxD) 100x71 x 35 mm power supply 5 V by interface simple switch for the temporarily use of a second keyboard at a PC data sheet DNR 8626	
824	RRP307 AT keyboard switch with metal housing Aluminium anodized (WxHxD) 100x71 x 35 mm power supply 5 V by interface simple switch for the temporarily use of a second keyboard at a PC data sheet DNR 8621	
819	RRP307 PS2 keyboard switch with plastic housing ABS black (WxHxD) 100x71 x 35 mm power supply 5 V by interface simple switch for the temporarily use of a second keyboard at a PC MINI-DIN 06 plugs data sheet DNR 8626	
818	RRP307 PS2 R&R keyboard switch with metal housing Aluminium anodized (WxHxD) 100x71 x 35 mm power supply 5 V by interface simple switch for the temporarily use of a second keyboard at a PC MINI DIN 06 plugs data sheet DNR 8621	


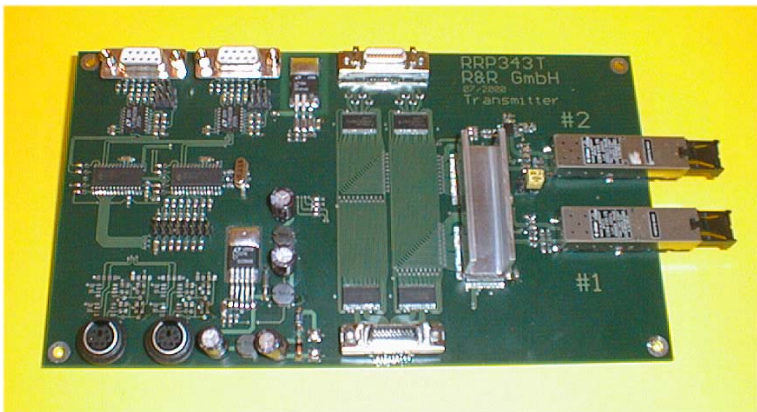
Art.-Nr.	Bezeichnung	Bild
788	RR-P-307 R&R keyboard switch (WxH) 75 x 31.75 mm power supply 5 V simple switch for the temporarily use of a second keyboard at a PC data sheet DNR 8376	
1703	RR-P-314 Controller TM101	
1051	RR-P-314 Tastaturcontroller	
1017	RR-P-314 Trackballcontroller	




Art.-Nr.	Bezeichnung	Bild
1381	RR-P-320 12V, 4 2farbige LED's DNR 10896	
1363	RR-P-321 24V Relaisplatine Erweiterung ohne Controller Gehäuse für Hutschienmontage (BxH) 160 x 107,5 mm Schnittstelle RS485 6 überwachte Relaisausgänge Datenblatt DNR 9177	
1364	RR-P-321 24V Relaisplatine mit Controller RS485 Gehäuse für Hutschienmontage (BxH) 160 x 107,5 mm 8 bit µController Schnittstelle RS485 6 überwachte Relaisausgänge Datenblatt DNR 9177	
910	RR-P-321 Relaisplatine Erweiterung ohne Controller Gehäuse für Hutschienmontage (BxH) 160 x 107,5 mm Schnittstelle RS485 6 überwachte Relaisausgänge Datenblatt DNR 9177	

Art.-Nr.	Bezeichnung	Bild
909	RR-P-321 Relaisplatine mit Controller RS485 Gehäuse für Hutschienmontage (BxH) 160 x 107,5 mm 8 bit µController Schnittstelle RS485 6 Überwachte Relaisausgänge Datenblatt DNR 9177	
1089	RR-P-331A RS232C/RS485 80386 33 MHz 0,9 MB Flash-Disk 2 MB RAM 8 Bit µController (LCD-Ansteuerung) Schnittstellen 1 x RS485, 1 RS232C 1 x LCD 1 x Schieberegister-Leuchttastur Betriebssystem DR-DOS Datenblatt DNR 10143	
905	RR-P-331A RS485/RS232C/VGA/Ethernet 80386 33 MHz 0,9 MB Flash-Disk 2 MB RAM 8 Bit µController (LCD-Ansteuerung) Schnittstellen 1 x RS485, 1 RS232C 1 x FDD 1 x HDD 1 x LCD 1 x Schieberegister-Leuchttastur 1 x PS2 VGA, Ethernet) Betriebssystem DR-DOS Datenblatt DNR 10143	
1176	RR-P-333 12V/DC Bestückung Schaltnetzteil DNR10198	

Art.-Nr.	Bezeichnung	Bild
1177	RR-P-333 Anschlußkabel Banknotenprüfer Smiley NV4 DNR 9176	
1175	RR-P-333 Anschlußkabel Münzprüfer G13 LANR 6348	
908	RR-P-333 CKL100 / CKS100 Stromversorgung und Steuerrechner	
906	RR-P-333 Koppelplatine für Banknotenprüfer Smiley NV4 DNR 9176	


Art.-Nr.	Bezeichnung	Bild
907	RR-P-333 Koppelplatine Münzer G13 DNR 9176	
1174	RR-P-333 Montagewinkel Münzprüfer G13 LANR 6257 incl. Montagematerial unF Vormontage	
1080	RR-P-341B 24V DC USV-Netzteil mit RS485 Bus-Interface Datenblatt DNR 10160	
1183	RR-P-342R LWL 2 x Panellink Out für 15" TFT Monitor 1024x768 Pixel, 18bit Farbtiefe 2 x PS2 2 x RS232 1 x RS485 Out 450 kHz 2 x In, 2 x Out TTL-Pegel LWL Empfänger VF45 Stromversorgung 12 - 24 V DC	

Art.-Nr.	Bezeichnung	Bild
1182	RR-P-342T LWL VF45 Sender 1 Panellink IN, 1 x Panellink Out kaskadierbar für 15" TFT Monitor 1024x768 Pixel, 18bit Farbtiefe 1 x RS485 In 450 kHz, 1 x RS485 Out kaskadierbar 2 x PS2 2 x RS232 2 x In, 2 x Out mit TTL-Pegel LWL- Sender VF-45 12 bis 24 V/DC Datenblatt DNR 10346	
1181	RR-P-343R LWL DLVDS 2xPS2, 2xRS232 Empfänger für 2 15" TFT Monitore 1024x768 Pixel 18Bit Farbtiefe Stromversorgung 12 bis 24 V/DC Aluminiumgehäuse DNR 10108	
1069	RR-P-343T LWL DLVDS 2xPS2, 2xRS232 kaskadierbar, für 15" TFT Monitor 1024x768 Pixel, 18bit Farbtiefe Stromversorgung 12-24 V/DC Aluminiumgehäuse Datenblatt DNR 10109	
1185	RR-P-344R LWL DLVDS Empfänger VF-45 für 2 15" TFT Monitore 1024x768 Pixel 18Bit Farbtiefe Stromversorgung 12-24 V/DC Aluminiumgehäuse	

Art.-Nr.	Bezeichnung	Bild
1184	RR-P-344T LWL DLVDS Sender VF-45 kaskadierbar für 15" TFT Monitore 1024x768 Pixel 18Bit Farbtiefe Stromversorgung 12-24 V/DC Aluminiumgehäuse	
1386	RR-P-346-1 Koppelplatine Münzer G13 DNR 10527	
1579	RR-P-346-2 Koppelplatine Chipkartenleser DNR 10527	
1385	RR-P-346-2 Koppelplatine für Banknotenprüfer Smiley NV4 DNR 10527	

R&R pcbs
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 USt.-IdNr.: DE141907699

Art.-Nr.	Bezeichnung	Bild
1369	RR-P-353 keyboard line driver PC-side / keyboard side	
1624	RR-P-284 versioent 2 plugable pcb for programmble controller RR-P-282 8 x Output Open-Collector 24V/500mA 8 Input 0V/24V DNR 7641	