




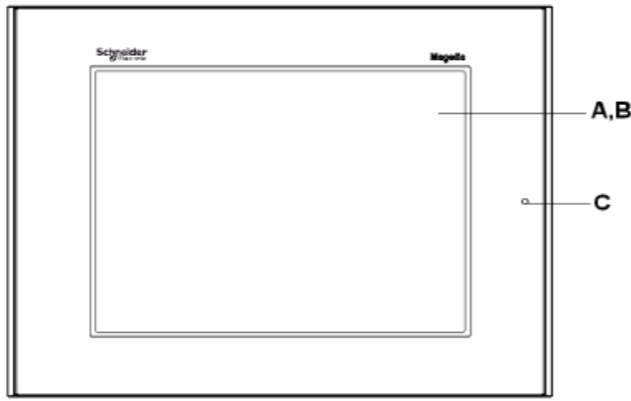

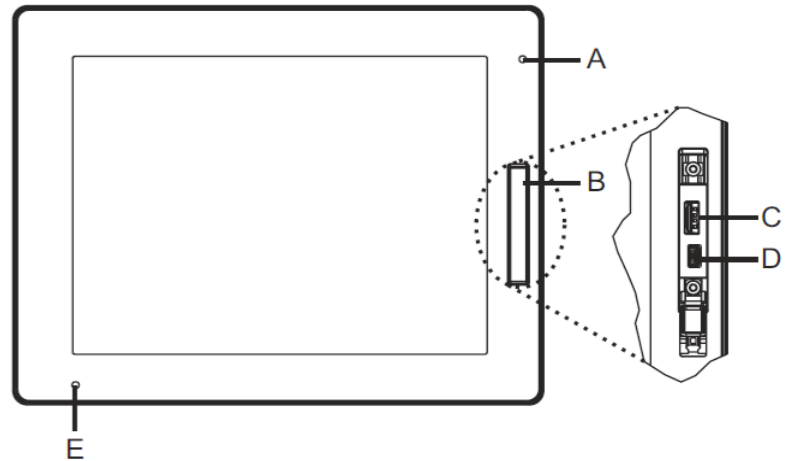
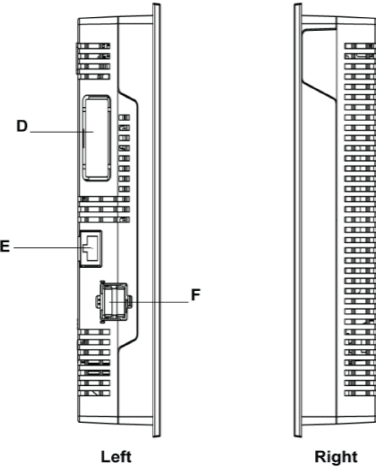
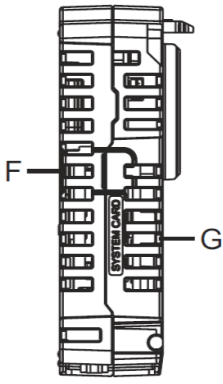
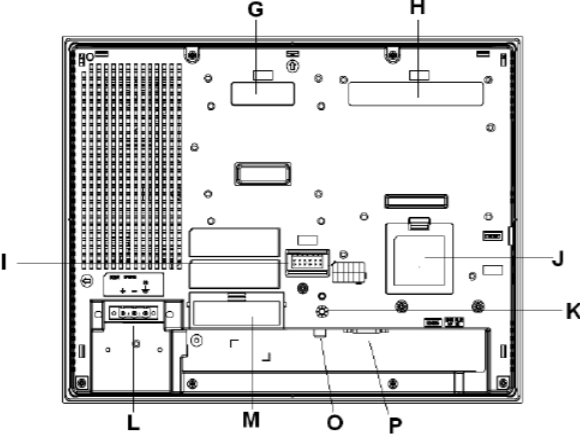
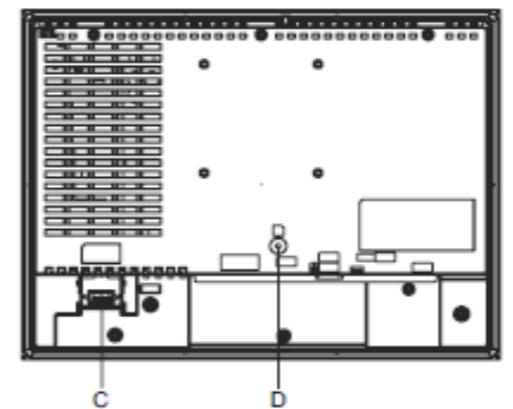
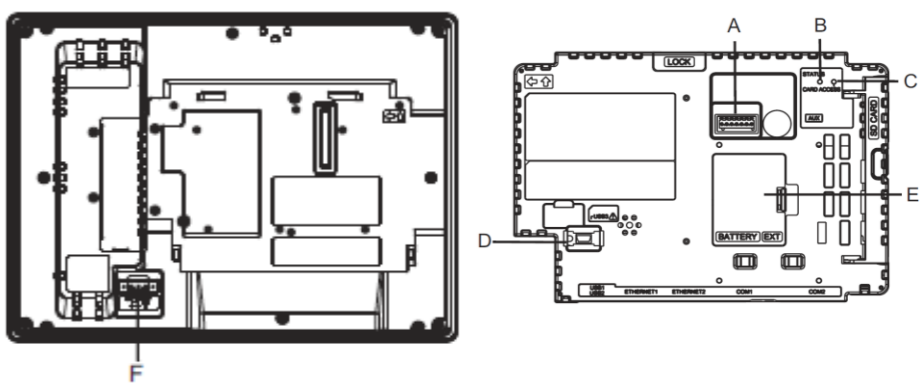
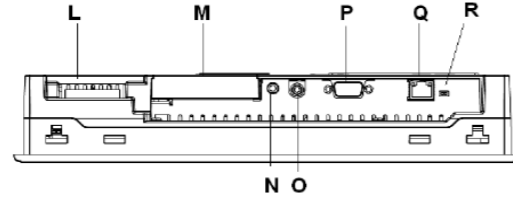
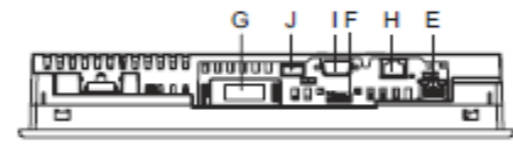
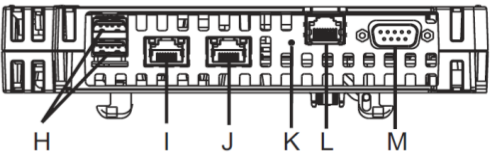
Transition Tool for XBTGT6330

Product Comparison	Obsolete Catalog Number XBTGT6330	Replacement Catalog Number HMIGTO6310	Replacement Catalog Number HMIDT642 + HMIG3U
Product photo			
Transition comments	Recommended replacement options - HMIGTO6310 - HMIDT642 + HMIG3U	+ Vijeo Designer applications are compatible + Panel cut-out is identical + Same certifications + More application memory + Additional mini-USB port + SD Card slot - Lower screen resolution - COM1 does not support RS-422/485 - Only one USB host port - No expansion for Fieldbus modules - No auxiliary I/O interface - No support for SoMachine functions	+ Vijeo Designer applications are compatible + Panel cut-out is identical + Same certifications + More application memory + Two Ethernet ports, higher speed + Additional mini-USB ports and USB host ports + Better screen (higher resolution, more colors) + SD Card slot - COM1 & COM2 functionality are swapped - Expansion for Fieldbus modules coming soon - Some auxiliary I/O functions - No support for SoMachine functions
Link to catalog		Magelis GTO Catalog	Magelis GTU Catalog
Link to user manual		Magelis GTO User Manual	Magelis GTU User Manual
Commercial			
Commercial Status	Commercialized until October 31, 2015	Commercialized	Commercialized
List price	\$4,378 (price will increase in 2015)	\$4,200	\$4,160 (\$2,930 + \$1,230)
Range of product	Magelis XBTGT	Magelis GTO	Magelis GTU
Warranty period	18 months	18 months	18 months
Country of origin	CN	CN	CN
Display			
Display type	Backlit color TFT LCD	Backlit color TFT LCD	Backlit color TFT LCD
Display color	65536 colors	65536 colors	16 million colors
Display resolution	800 x 600 pixels SVGA	800 x 600 pixels SVGA	1024 x 768 pixels XGA
Display size	12.1 inch	12.1 inch	12.1 inch
Effective display area	W9.76 x H7.34 in (W248 x H186.5 mm)	W9.69 x H7.26 in (W246.0 x H184.5 mm)	W9.68 x H7.26 in (W245.76 x H184.32 mm)
Backlight type	CFL	White LED	White LED
Backlight lifespan	50000 hours at 77 °F (25 °C) before backlight decreases to 50%	50000 hours (white) at 77 °F (25 °C) before backlight decreases to 50%	50000 hours (white) at 77 °F (25 °C) before backlight decreases to 50%
Brightness	16 levels via touch panel	16 levels - control by software or touch panel	100 levels - control by sensor, software or touch panel
Contrast	n/a	n/a	n/a
Touch panel	Analog resistive film, 1000000 cycles	Analog resistive film, 1000000 cycles	Analog resistive film, 1000000 cycles
Touch sensitive zone	1024 x 1024	1024 x 1024	1024 x 1024
Hardware			
Processor type	RISC CPU	RISC CPU	RISC CPU
Processor frequency	266 MHz	333 MHz	600 MHz
Application memory	32 MB flash EPROM	96 MB flash EPROM	SD Card 1 GB
Memory for data back up	512 kB internal RAM (SRAM) battery backed	512 kB internal RAM (SRAM) battery backed	512 kB internal NVRAM
Battery type	Lithium battery for internal RAM	Lithium battery for internal RAM	Supercapacitor (optional Lithium battery) for internal RAM
Realtime clock	Built-in	Built-in	Built-in
Memory slot type	1 slot for Compact Flash card (128 MB to 1 GB)	1 slot for SD/SDHC card (<= 32 GB)	1 slot for SD/SDHC card

Transition Tool for XBTGT6330

Product Comparison	Obsolete Catalog Number XBTGT6330	Replacement Catalog Number HMIGTO6310	Replacement Catalog Number HMIDT642 + HMIG3U
Software			
Software type	Configuration software	Configuration software	Configuration software
Software compatibility	Vijeo Designer >= v4.3	Vijeo Designer >= v6.1	Vijeo Designer >= v6.2 SP1
Operating system	Magelis	Magelis	Magelis
Number of pages	Limited by internal memory capacity	Limited by internal Flash EPROM memory capacity	Limited by SD Card memory capacity
Variables per page	Unlimited (8000 variables max.)	Unlimited (8000 variables max.)	Unlimited (8000 variables max.)
Connectivity			
USB type A	2x USB type A master port (V1.1)	USB 2.0 port USB type A	3x USB 2.0 port USB type A (2x rear box and 1x front panel)
USB type B mini	n/a	USB 2.0 port mini B USB	2x USB 2.0 port mini B USB (1x rear box and 1x front panel)
COM ports	COM1 serial link male SUB-D 9 RS232C/RS422/RS485 <= 115.2 kbits/s	COM1 serial link SUB-D 9, interface: RS232C, transmission rate: 2400...115200	COM2 serial link male SUB-D 9 RS232C/RS422/RS485 <= 115.2 kbits/s (187.5 kbps, compatible with Siemens MPI)
	COM2 serial link RJ45, interface: RS485, transmission rate: 2400...115200 bps (187.5 kbps, compatible with Siemens MPI)	COM2 serial link RJ45, interface: RS485, transmission rate: 2400...115200 bps (187.5 kbps, compatible with Siemens MPI)	COM1 serial link RJ45, interface: isolated RS485, transmission rate: 2400...115200 bps (187.5 kbps, compatible with Siemens MPI)
Ethernet	10BASE-T/100BASE-TX	10BASE-T/100BASE-TX	10BASE-T/100BASE-TX/1000BASE-T
Fieldbus slot	Slot for 1 fieldbus communication card (Device Net, Profibus DP)	n/a	Slot for 1 fieldbus communication card (Target availability mid 2015)
Digital input	1 input (EXT RESET), removable screw terminal block	n/a	n/a
Digital output	3 outputs (RUN, ALARM, BUZZER), removable screw terminal block	n/a	1 output (ALARM/BUZZER), removeable terminal block
Audio output	1 output, removable screw terminal block	n/a	1 output, removeable terminal block
Electrical			
US rated supply voltage	24 VDC	24 VDC	12...24 VDC
Power connector	Removable screw terminal block	Removable spring terminal block	Removable spring terminal block
Supply	External source	External source	External source
Supply voltage limits	19.2...28.8 VDC	19.2...28.8 VDC	10.8...28.8 VDC
Inrush current	<= 30 A	<= 30 A	<= 30 A
Power consumption	<= 30 W	<= 17 W	<= 56 W
Mechanical			
Cut-out dimensions	W11.87 x H8.96 in (W301.5 x H227.5 mm)	W11.87 x H8.96 in (W301.5 x H227.5 mm)	W11.87 x H8.96 in (W301.5 x H227.5 mm)
Width	12.32 in (313 mm)	12.4 in (315 mm)	12.4 in (315 mm)
Height	9.41 in (239 mm)	9.49 in (241 mm)	9.49 in (241 mm)
Depth	2.2 in (56 mm)	2.2 in (56 mm)	2.64 in (67 mm), display module with box module
Product weight	6.61 lb(US) (3 kg)	5.51 lb(US) (2.5 kg)	9.08 lb(US) (4.1 kg)
Product mounting	Flush mounting	Flush mounting	Flush mounting
Mounting mechanism	By 4 screw clamps or by 4 spring clips	By 4 screw clamps	By 4 integrated screw clamps
Front material	Aluminium alloy	PPT	Aluminium alloy
Enclosure material	PPT	PPT	Aluminium alloy
Environment			
Operating temperature	32...122 °F (0...50 °C)	32...131 °F (0...55 °C)	32...140 °F (0...60 °C)
Storage temperature	-4...140 °F (-20...60 °C)	-4...140 °F (-20...60 °C)	-4...140 °F (-20...60 °C)
Type of cooling	Natural air circulation	Natural air circulation	Natural air circulation
Relative humidity	0...90 % without condensation	10...90 % without condensation	10...90 % without condensation
IP rating - front panel	IP65 conforming to IEC 60529	IP65 conforming to IEC 60529	IP66F/IP67F
NEMA rating - front panel	NEMA #250 Type 4X/13 (indoor use)	NEMA #250 Type 4X/13 (indoor use)	NEMA #250 Type 4X/13 (indoor use)
Certifications			
Certifications and standards	CE, ATEX, cULus, Class 1 Division 2	CE, ATEX, cULus, Class 1 Division 2	CE, ATEX, cULus, Class 1 Division 2
Marine agencies	ABS, BV, DNV, GL, LR, RINA, RMRS	ABS, BV, DNV, GL, LR, RINA, RMRS	(pending) ABS, BV, DNV, GL, LR, RINA, RMRS
WEEE	Directive 2002/96/EC	Directive 2002/96/EC	Directive 2012/19/EU
RoHS	Directive 2002/95/EC	Directive 2002/95/EC	Directive 2011/65/EU
RoHS China	Standard SJ/T 11363-2006	Standard SJ/T 11363-2006	Standard SJ/T 11363-2006

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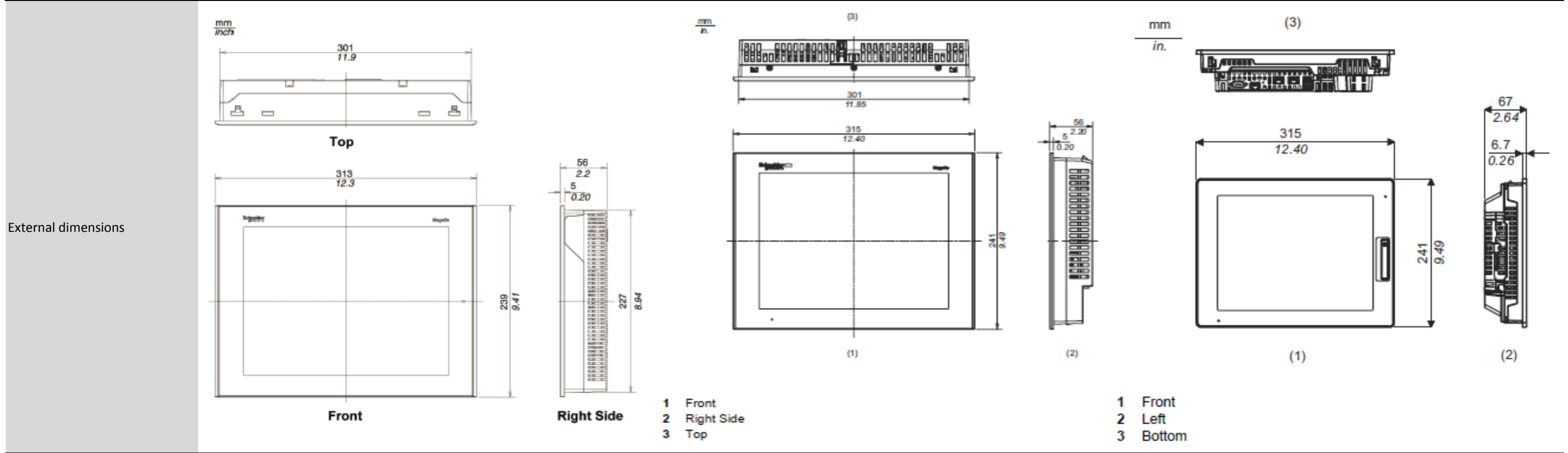
Product Comparison	Obsolete Catalog Number XBTGT6330	Replacement Catalog Number HMIGT6310	Replacement Catalog Number HMIDT642 + HMIG3U
Parts Identification			
Front view			 <p data-bbox="1970 628 2184 657">Display Unit HMIDT642</p>
Side view	 <p data-bbox="685 1037 756 1059">Left</p> <p data-bbox="871 1037 928 1059">Right</p>	<p data-bbox="1556 851 1613 884">n/a</p>	 <p data-bbox="1970 1043 2142 1072">Box Unit HMIG3U</p>
Rear view			 <p data-bbox="1970 1437 2384 1465">Display Unit HMIDT642 and Box Unit HMIG3U</p>
Bottom view			 <p data-bbox="1970 1655 2142 1683">Box Unit HMIG3U</p>

Transition Tool for XBTGT6330

Product Comparison	Obsolete Catalog Number XBTGT6330	Replacement Catalog Number HMIGT06310	Replacement Catalog Number HMIDT642 + HMIG3U
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Parts Identification			
Label descriptions	A - Display B - Touch Panel C - Status LED D - Expansion Unit Interface E - Ethernet Interface F - USB Host Interface x2 G - Expansion Unit Interface H - Expansion Unit Interface I - Auxiliary I/O Interface J - Expansion Memory Interface Cover K - CF Card Access LED L - Power Plug Connector M - CF Card Cover N - n/a O - n/a P - Serial Interface COM1 Q - Serial Interface COM2 R - RS-485 Polarization Selector Switch	A - Status LED B - n/a C - Power Plug Connector D - SD Card Access LED E - Ethernet Interface F - USB (mini-B) Interface G - SD Car Interface Cover H - Serial Interface COM2 I - Serial Interface COM1 J - USB (Type A) Interface	<u>Display Unit HMIDT642</u> A - Brightness Sensor B - Front USB Cover C - USB (Type A) Interface D - USB (mini-B) Interface E - Status LED F - Power Connector <u>Box Unit HMIG3U</u> A - Auxiliary Output Interface B - Status LED C - Card Access LED D - USB (mini-B) Interface E - Expansion Unit Interface Cover F - Storage Card Cover G - System Card Cover H - USB (Type A) Interface x2 I - Ethernet Interface J - Ethernet Interface K - COM1 LED L - Serial Interface (COM1) M - Serial Interface (COM2)

Drawings



Transition Tool for XBTGT6330

Product Comparison	Obsolete Catalog Number XBTGT6330	Replacement Catalog Number HMIGTO6310	Replacement Catalog Number HMIDT642 + HMIG3U
Port Connections			

RS-232 D-Sub 9-pin	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pin Connection</th> <th>Pin</th> <th>Signal Name</th> <th>Direction</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td rowspan="9"></td> <td>1</td> <td>CD</td> <td>Input</td> <td>Carrier Detect</td> </tr> <tr> <td>2</td> <td>RD(RXD)</td> <td>Input</td> <td>Receive Data</td> </tr> <tr> <td>3</td> <td>SD(TXD)</td> <td>Output</td> <td>Send Data</td> </tr> <tr> <td>4</td> <td>ER(DTR)</td> <td>Output</td> <td>Data Terminal Ready</td> </tr> <tr> <td>5</td> <td>SG</td> <td>-</td> <td>Signal Ground</td> </tr> <tr> <td>6</td> <td>DR(DSR)</td> <td>Input</td> <td>Data Set Ready</td> </tr> <tr> <td>7</td> <td>RS(RTS)</td> <td>Output</td> <td>Request to Send</td> </tr> <tr> <td>8</td> <td>CS(CTS)</td> <td>Input</td> <td>Send Possible</td> </tr> <tr> <td>9</td> <td>CI(RI)/VCC</td> <td>Input</td> <td>Called status display/+5V±5% Output 0.25A</td> </tr> <tr> <td>Shell</td> <td>FG</td> <td>-</td> <td>Frame Ground (Common with SG)</td> </tr> </tbody> </table> <p style="text-align: center;">COM1</p>	Pin Connection	Pin	Signal Name	Direction	Meaning		1	CD	Input	Carrier Detect	2	RD(RXD)	Input	Receive Data	3	SD(TXD)	Output	Send Data	4	ER(DTR)	Output	Data Terminal Ready	5	SG	-	Signal Ground	6	DR(DSR)	Input	Data Set Ready	7	RS(RTS)	Output	Request to Send	8	CS(CTS)	Input	Send Possible	9	CI(RI)/VCC	Input	Called status display/+5V±5% Output 0.25A	Shell	FG	-	Frame Ground (Common with SG)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Pin Connection</th> <th>Pin No.</th> <th>RS-232C</th> <th>Signal Name</th> <th>Direction</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td rowspan="9"></td> <td>1</td> <td>CD</td> <td>Input</td> <td>Carrier Detect</td> </tr> <tr> <td>2</td> <td>RD(RXD)</td> <td>Input</td> <td>Receive Data</td> </tr> <tr> <td>3</td> <td>SD(TXD)</td> <td>Output</td> <td>Send Data</td> </tr> <tr> <td>4</td> <td>ER(DTR)</td> <td>Output</td> <td>Data Terminal Ready</td> </tr> <tr> <td>5</td> <td>SG</td> <td>-</td> <td>Signal Ground</td> </tr> <tr> <td>6</td> <td>DR(DSR)</td> <td>Input</td> <td>Data Set Ready</td> </tr> <tr> <td>7</td> <td>RS(RTS)</td> <td>Output</td> <td>Request to Send</td> </tr> <tr> <td>8</td> <td>CS(CTS)</td> <td>Input</td> <td>Send possible</td> </tr> <tr> <td>9</td> <td>CI(RI)/VCC</td> <td>Input/-</td> <td>Called Status Display +5V±5% Output 0.25A</td> </tr> <tr> <td>Shell</td> <td>FG</td> <td>-</td> <td>Frame Ground (Common with SG)</td> </tr> </tbody> </table> <p style="text-align: center;">COM1</p>	Pin Connection	Pin No.	RS-232C	Signal Name	Direction	Meaning		1	CD	Input	Carrier Detect	2	RD(RXD)	Input	Receive Data	3	SD(TXD)	Output	Send Data	4	ER(DTR)	Output	Data Terminal Ready	5	SG	-	Signal Ground	6	DR(DSR)	Input	Data Set Ready	7	RS(RTS)	Output	Request to Send	8	CS(CTS)	Input	Send possible	9	CI(RI)/VCC	Input/-	Called Status Display +5V±5% Output 0.25A	Shell	FG	-	Frame Ground (Common with SG)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Product side</th> <th>Pin No.</th> <th>RS-232C</th> <th>Signal Name</th> <th>Direction</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td rowspan="9"></td> <td>1</td> <td>CD</td> <td>Input</td> <td>Carrier Detect</td> </tr> <tr> <td>2</td> <td>RD (RXD)</td> <td>Input</td> <td>Receive Data</td> </tr> <tr> <td>3</td> <td>SD (TXD)</td> <td>Output</td> <td>Send Data</td> </tr> <tr> <td>4</td> <td>ER (DTR)</td> <td>Output</td> <td>Data Terminal Ready</td> </tr> <tr> <td>5</td> <td>SG</td> <td>-</td> <td>Signal Ground</td> </tr> <tr> <td>6</td> <td>DR (DSR)</td> <td>Input</td> <td>Data Set Ready</td> </tr> <tr> <td>7</td> <td>RS (RTS)</td> <td>Output</td> <td>Request to Send</td> </tr> <tr> <td>8</td> <td>CS (CTS)</td> <td>Input</td> <td>Send possible</td> </tr> <tr> <td>9</td> <td>CI (RI)/VCC</td> <td>Input/-</td> <td>Called Status Display +5V±5% Output 0.25 A¹</td> </tr> <tr> <td>Shell</td> <td>FG</td> <td>-</td> <td>Functional Ground (Common with SG)</td> </tr> </tbody> </table> <p style="text-align: center;">COM2</p>	Product side	Pin No.	RS-232C	Signal Name	Direction	Meaning		1	CD	Input	Carrier Detect	2	RD (RXD)	Input	Receive Data	3	SD (TXD)	Output	Send Data	4	ER (DTR)	Output	Data Terminal Ready	5	SG	-	Signal Ground	6	DR (DSR)	Input	Data Set Ready	7	RS (RTS)	Output	Request to Send	8	CS (CTS)	Input	Send possible	9	CI (RI)/VCC	Input/-	Called Status Display +5V±5% Output 0.25 A ¹	Shell	FG	-	Functional Ground (Common with SG)
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