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**HIGH SPEED  
 PROTOCOL  
 axon'  
 product  
 guide**



# HIGH SPEED PROTOCOL AXON' PRODUCT GUIDE

PROTOCOL	REFERENCE STANDARD	DATA RATE FREQUENCY	WHICH AXON' LINK FOR EACH PROTOCOL ?								
TERAHERTZ TRANSMISSION	--	UP TO 2 THz	DIELECTRIC WAVEGUIDE								
AUTOMOTIVE RADAR	--	77 GHz bands	COAXIAL CONNECTOR								
« Open Protocol » Digital links 100Ω 4 ways Up to 10Gb/s/way Space Grade	ESCC 3401.093	Up to 40GHz BW (RL<1.25) #100Gb/s2	MICROMACH® CONNECTOR -55°C +125°C								
« Open Protocol » Digital links 100Ω 4 ways Up to 10Gb/s/way Space Grade	ESCC 3409.001	Up to 40Gb/s	VERSATYS® COAX -55°C +125°C								
Ethernet 25/40G	ISO/IEC 802.3	25/ 40Gb/s	AXOMACH® CONNECTOR SMA CONNECTOR								
USB 3.2 GEN 2x2	USB 3.2 GEN 2x2	20 Gb/s	MICROMACH® CONNECTOR								
HDMI 2.0	HDMI 2.0	18 Gb/s	MICRO-D CONNECTOR -55°C +200°C								
« Open Protocol » Digital links 100Ω 4 ways Up to 3Gb/s/way Space Grade	ESCC3409.002	Up to 12Gb/s	MICROMACH® CONNECTOR								
HDMI 1.3a 1.4	HDMI 1.3a 1.4	10.2 Gb/s	21-WAY MICRO-D								
Ethernet 10G BaseT	ISO/IEC 802.3	10 Gb/s	15-WAY MICRO-D MICROMACH® CONNECTOR								
USB 3.2 GEN 1x1	USB 3.2 GEN 1x1	5 Gb/s	15-WAY MICRO-D								
SpaceFibre Wizardlink	ECSS-E-ST-50-11C ESCC-3409.001	1 to 6Gb/s	ACB8 CONTACT -65°C +150°C								
Fiber Channel	MIL-STD-1760	1Gb/s	AXOMACH® CONNECTOR SMA CONNECTOR -55°C +125°C								
Ethernet 1000 BaseT	ISO/IEC 802.3	1Gb/s	15-WAY MICRO-D MICROMACH® CONNECTOR								
USB 2.0	USB 2.0	480 Mb/s	9-WAY MICRO-D								
SpaceWire	ECSS-E-ST-50-12C ESCC3409.002	UP TO 400 Mb/s	9-WAY MICRO-D MICROMACH® CONNECTOR								
CAN	ISO11898	≤ 1Mb/s	MICRO-D QUADRAX								
BUS 1553	MIL-STD-1553B	≤ 1Mb/s	MICRO-D TRIAXon®ACB1 to 7 -65°C +150°C								
			AXON' CABLE TYPE								
			1 PAIR	2 PAIRS	4 PAIRS	4 PAIRS INCLUDING 1 CLOCK	1 COAX	4 COAXES	8 COAXES	1 COAX PAIR TO 4 COAX PAIRS	DIELECTRIC WAVEGUIDE

## AXON' CABLE REFERENCES

### 1 PAIR

- P502805 - Twinax bus 20
- P502810 - Twinax bus 10
- P504621 - Twinax bus 70
- P507991 - Twinax bus 31
- P511981 - Twinax bus 72
- P512296 - Twinax bus 40
- P512806 - Twinax bus 21
- P512807 - Twinax bus 22
- P517417 - Twinax bus 71
- P530781 - Twinax bus 44
- P538524 - Twinax bus 80
- P539883 - 28AWG - 120 Ω
- P541610 - Twinax bus 43
- P545944 - 26AWG - 90 Ω
- P546162 - Twinax bus 41
- P812302 - Twinax bus 45
- P815721 - Twinax bus 61
- P819845 - Twinax bus 60
- P850061 - 28AWG - 120 Ω

### 2 PAIRS

- P871463 - 2619 AWG

### 4 PAIRS

- P532242 - 28AWG - 4x 100 Ω
- P542808 - 27AWG - 4x 100 Ω
- P544806 - 26AWG - 4x 100 Ω
- P551259 - 28AWG - 4x 100 Ω

### 4 PAIRS INCLUDING 1 CLOCK

- P547683 - 24AWG - 4x 100 Ω

### 1 COAX

- P541180 - 22AWG - 75 Ω
- P852963 - 28AWG - 75 Ω

### 4 COAXES

- P840563 - 50 Ω

### 8 COAXES

- P551260 - 34AWG - 50 Ω

### 1 COAX PAIR TO 4 COAX PAIRS

- P840563 - 50 Ω