

Serial and USB Converters: Converters and Repeater Modules

Repeaters



Model	ADAM-4510 ADAM-4510S	ADAM-4510I
Network	RS-422 RS-485	RS-422/485
Comm. Speed (bps)	Serial: From 1,200 to 115.2K	From 1,200 to 115.2k
Comm. Distance	Serial: 1.2 km	Serial: 1.2 km
Interface Connectors	RS-422/485: plug-in screw terminal	RS-422/485: plug-in screw terminal
LED Indicators	Communication and power	Communication and Power
Data Flow Control	-	✓
Isolation Voltage	ADAM-4510: - ADAM-4510S: 3,000 V _{DC}	3,000 V _{DC}
Power Requirements	10 ~ 30 V _{DC}	10 ~ 48 V _{DC}
Operating Temperature	-10 ~ 70°C (14 ~ 158°F)	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	5 ~ 95% RH	
Power Consumption	1.4 W @ 24 V _{DC}	
Certification	UL,CE,FCC	C1D2, UL, CE, FCC

Converters



Model	ADAM-4520	ADAM-4520I	ADAM-4521	ADAM-4541 ADAM-4542+	ADAM-4561 ADAM-4562
Network	RS-232 to RS-422/485			Fiber optic to RS-232/422/485	USB to RS-232/485/422
Comm. Speed (bps)	Serial: From 1,200 to 115.2K				
Comm. Distance	Serial: 1.2 km	Serial: 1.2 km	Serial: 1.2 km	ADAM-4541: 2.5 km ADAM-4542+: 15 km	Serial: 1.2 km
Interface Connectors	RS-232: female DB9 RS-422/485: plug-in screw terminal	RS-232: female DB9 RS-422/485: plug-in screw terminal	RS-232: female DB9 RS-422/485: plug-in screw terminal	RS-232/422/485: plug-in screw terminal Fiber: ADAM-4541: ST connector ADAM-4542+: SC connector	USB: type A client connector Serial: ADAM-4561: plug-in screw terminal (RS-232/422/485) ADAM-4562: DB9 (RS-232)
LED Indicators	Communication and power				
Data Flow Control	-	✓	✓	-	✓
Watchdog Timer	-	-	✓	-	✓
Isolation Voltage	3,000 V _{DC}	3,000 V _{DC}	1,000 V _{DC}	-	ADAM-4561: 3,000 V _{DC} ADAM-4562: 2,500 V _{DC}
Power Requirements	10 ~ 30 V _{DC}	10 ~ 48 V _{DC}	10 ~ 30 V _{DC}	10 ~ 30 V _{DC}	10 ~ 30 V _{DC}
Operating Temperature	-10 ~ 70°C (14 ~ 158°F)	-40 ~ 85°C (-40 ~ 185°F)	-10 ~ 70°C (14 ~ 158°F)	-10 ~ 70°C (14 ~ 158°F)	-10 ~ 70°C (14 ~ 158°F)
Operating Humidity	5 ~ 95% RH				
Power Consumption	1.2 W @ 24 V _{DC}	1.2 W @ 24 V _{DC}	1 W @ 24 V _{DC}	ADAM-4541: 1.5 W @ 24 V _{DC} ADAM-4542+: 3 W @ 24 V _{DC}	ADAM-4561: 1.5 W @ 5 V _{DC} ADAM-4562: 1.1 W @ 5 V _{DC}
Certification	UL,CE,FCC	C1D2, UL, CE, FCC	UL,CE,FCC	ADAM-4541: UL,CE,FCC ADAM-4542+: CE,FCC	CE,FCC