Connect Tech Inc.

Xtreme/Multi-I/O

Connect Tech's Xtreme/Multi-I/O features dual SJA1000 CANbus controllers, isolated serial and CAN ports, and two MultiTech Universal compatible sockets on a single PC/104 board design. This high density communication board offers an all-in-one communication solution, optimizing Size, Weight, and Performance (SWaP) requirements. This innovative product takes full advantage of the latest technologies in jumperless configuration, high voltage isolation and advanced communication functionality.

On-board FPGA and PIC32 microcontroller facilitate jumperless configuration of the board, with the FPGA providing a full-featured J1708 controller.

Xtreme/Multi-I/O includes two galvanic isolated CANbus controllers with 2500V isolation protection and advanced networking and configuration capabilities. The 4x RS-232 ports and 1x RS-485/J1708 port features 2500V isolation protection and individual +5VDC isolated power supplies, providing less noise and increased system protection.

With USB connectivity and jumperless setup, extended operating temperature, and versatile options, Connect Tech's Xtreme/Multi-I/O is ideal for CANbus, serial, wired and wireless communication.

Product Name: Xtreme/Multi-I/O
Part Number: XMG001

FEATURES

✓All-in-one PC/104 communication solution for CANbus, serial port, and wired and wireless communication

✓High voltage port isolation reduces noise and improves system protection

✓Advanced CANbus functionality reduces development time, cost, and installation

✓Jumperless configuration

✓Extended operating temperature for outstanding performance and reliability in harsh environments

Specifications	
Supply Voltage	+5 VDC, 600 mA maximum (+ socket power)
Aux Port Output Current	5V, 125mA maximum
Aux Port Output Isolation	2500V maximum
Dimensions	PC/104 Compliant, 90mm x 96mm x 15mm (3.55" x 3.775" x 0.6")
Weight	52g (1.9oz)
Operating Temperature	-40°C to +85°C (-40°F to 185°F)
CANbus	2 x SJA1000 Controllers, 1Mbp/s maximum
RS-232	4 x Isolated Ports, 921Kbp/s maximum
RS-485	1 x Isolated Port, 921Kbp/s maximum Configurable for J1708 operation
Universal Sockets	2 x MultiTech Compatible Sockets, 921Kbp/s maximum 3.3V or 5V, up to 3.2A maximum
LED Indicators	5 x Isolated LED's, built-in limiting resistors
USB	1 x USB port for easy installation setup
Warranty and Support	Lifetime warranty and free technical support