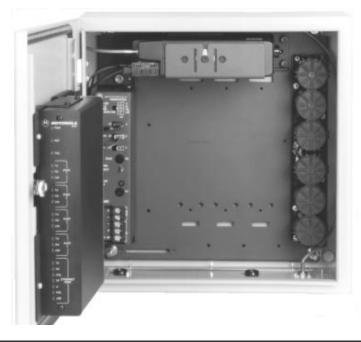
MCP-T

Motorola Communication Processor for TCP/IP

The MCP-T is the bridge element between a MOSCAD radio-based Wide Area Network (WAN) and the computer system's Local Area Network (LAN).



FEATURES

TCP/IP

Ethernet and TCP/IP is the communication medium and protocol commonly used in a computer Local Area Network (LAN). The LAN provides connectivity among multiple users performing simultaneously the many different tasks required by large computer-system users. The Motorola Communication Processor for TCP/IP provides an Ethernet and TCP/IP connection into the LAN for data from MOSCAD field RTUs.

◆ The core computer system, with all features intact, may directly utilize field data in their billing, customer service, dispatch and other operational activities.

MDLC Protocol

MDLC is the seven layer protocol used by MOSCAD that conforms to the ISO recommendation for Open System Interconnection (OSI). It is designed for on-radio use and allows multiple logical communication channels per communication medium thereby making possible simultaneous Host-to-RTU, RTU-to-Host, and RTU-to-RTU data sessions.

◆ A designed-for-radio protocol optimizes the data transfer between field RTUs, including communications with a central computer system. Maximum data thruput with minimum communication channel occupancy is provided.

Connectivity

One or two ports on the MCP-T may be used for communications with MOSCAD field RTUs via different physical media and utilizing different data speeds. Connection into Ethernet may occur via the AUI or 10-Base-T port. The MOSCAD programming ToolBox software, running in a PC computer, may also be connected to the MCP-T for over-the-air programming or diagnostics of the field RTUs.

◆ These connectivity capabilities permit the creation of communication topographies appropriate to the needs of the system.

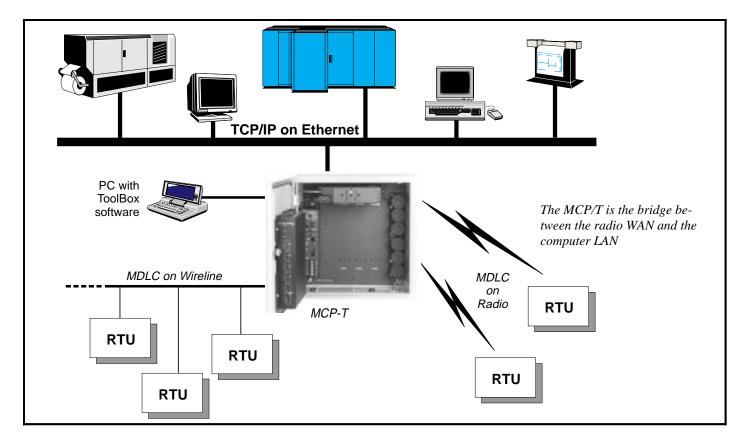
Configuration & Simulation

Each MCP-T includes Windows-based configuration software. This software eases the setting of communication parameters in the MCP-T. Sample programs are also available in C-language to assist the integrator develop the proper interface between TCP/IP and the target SCADA, dispatch, billing, and other applications.

◆ Building the custom software interface to the TCP/IP is made quite easy via the available examples plus the development and configuration tools.



Specifications		
Order:		F43xx-family (xx denotes radio frequency and power level)
CPU: Memory:		68360; 25 MHz clock 4 Mb DRAM, 1 Mb Flash
Ports:	Port 1: Port 2: Port 3: Port 4 (optional):	Ethernet 10-BaseT or Ethernet AUI @ 10 Mbps RS-232 Async or RS-485 @ up to 19.2 kbps RS-232 Async @ up to 19.2 kbps (up to 9.6 kbps when used with DARCOM modem) Radio Communications: FSK @ up to 2.4 kbps or DPSK @ 1.2 kbps or Wireline Communications: refer to separate Modem description sheet R3-11-93 or RS-232: Async @ up to 19.2 kbps
Indicators:		22 LEDs: 3 per port plus 7 for Ethernet activity; Power, Reset, Fail
Physical	Enclosure Power Supply	Steel: 15 x 15 x 8.25" (38 x 38 x 21 cm); rated NEMA4 Dual: 117 Vac or 230 Vac 50-60 Hz, provides power to both module and radio, charges battery; 12.6 Vdc @ 5A-h battery
Environmental:	Temperature: Humidity:	0 to +60°C 0 to 90% @ +50°C





Support Services

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