QTC Traffic Solutions

NEW *CM3248-VC6 Traffic Controller

QTC Traffic Controller New CM3248-VC6 Command Module fully compatible with latest TRAFF versions and amendment to TSC/4.
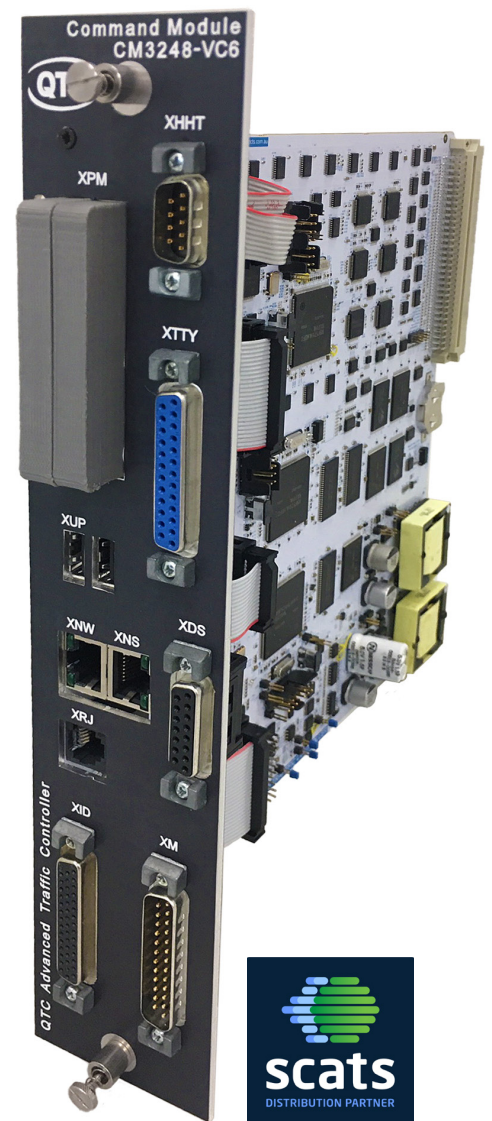
The new Command Module CM3248-VC6 from QTC was designed to run the latest RMS Traff VC6 software. The module name CM3248-VC6 is derived from the software supporting 32 signal groups, 48 loops inputs plus 8 pedestrian push button inputs plus additional SPIP and SPOP 24/24 and latest VC6 Traff version for the latest SCATS 6.9.4. Uo to 32 XSF and 32 MSS Flagsare also incorporated on this latest revision of the QTC Command Module.

The new CPU consists of three processors running at 240MHz:

► Processor 1 runs RMS' Traff and QTC's HRS (Hardware Related Software).

► Processor 2 runs the Secondary Conflict Monitor.

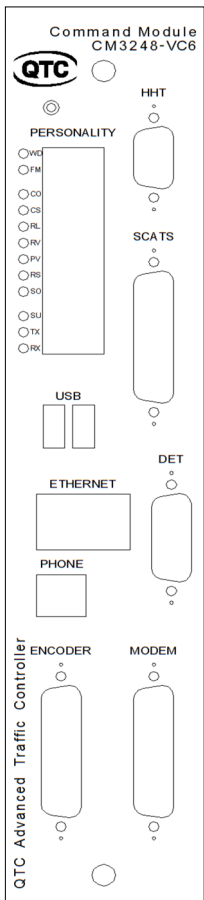► Processor 3 runs a dedicated web server.

The processors have:

► Internal 4MB flash memory with the possibility of securing the memory against unauthorised access.

► Internal 512KB of RAM memory.

► External flash memory of 32MB for Processors 1 and 3.

► External 2MB RAM for Processor 1, expandable to 16MB.

► External SDRAM of 64MB for Processor 1 and 32MB for Processor 3, both expandable up to 128MB.

One advantage of running from internal memory is that both the flash and RAM are exceptionally fast: 120MHz (equivalent to an 8.3ns access time) and 240MHz (equivalent to 4.3ns access time) which are much faster than anything achievable with external memory.

Communication between Processor 1 and Processors 2 and 3 is via USB2.0 signaling.

*Certification Pending

The Command Module has the following features:

► 2x Ethernet ports, one dedicated to SCATS® and the other to the web server user interface. The web user interface will allow monitoring of the operation and subject to privileges, changes to the operation of the controller.

► 2x USB 2.0 High Speed (480Mb/s) ports are used with flash drives for fault log download (or to recharge a mobile phone, should it be necessary).

► Internal modem for Bell103 and V.34 modes operating on leased lines or PSTN.

► UARTs with 64 bytes transmit and received FIFOs for backplane communications.

► Real Time Clock with battery backup.

► Incorporates an ultra-capacitor to allow operation for up to 20 seconds in the event of power failure (last gasp).

All other interfaces are the same as in the Command Module CM3264 VC5. The new Command Module is compatible with the new requirements of TSC/4 Amendment 3:

► Dimming by Signal Control (or as commonly called Dimming by Wire). This function is assured by an external Lamp Dimming Signal Generator under the control of the Command Module.

► New Housing Electrical Code Encoder to define the key electrical characteristics of the cabinet, that is, the lamp supply voltage regulation method: phase control or transformer based, the lamp dimming type: phase control, transformer-based dimming or dimming by control signal (or by wire), and the lamp supply voltage: nominal mains or Extra Low Voltage (ELV).