












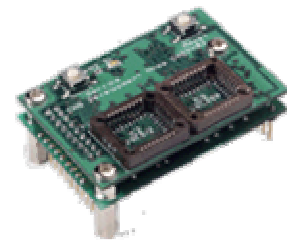


## Features

-  LonWorks control modules form factor compatible
-  Neuron 3150 based with either OTP or Flash EPROM
-  Additional memory from 32K SRAM included
-  Available with on board external UART for Lon to Serial applications
-  TP/XF-1250, FTT-10 and LPT-10 versions available using Echelon transceivers, plus Radio Transceiver
-  Common form factor for interchangeability.
-  Hardware selectable memory map for 16K to 64K Flash or EPROM
-  DV03 can be supplied with different crystal frequencies.
-  On board low voltage detector for reliable EEPROM writes on the Neuron chip with extended reset pulse for Flash memory support
-  Reset button and service button/LED included
-  5 volt power supply
-  Extend your development platform for LonWorks®
-  Embed in your LonWorks Products for the ultimate in flexibility



**Top Side View of all versions**

## Description

These control modules offer a fast and efficient way of testing code and networks during development and pre-production, when individual nodes have been created and debugged with the Lonbuilder® or Nodebuilder® tools. They also support production requirements for full memory nodes. The compact size and extra memory allows these modules to be inserted into target locations in the field away from the laboratory whilst enabling Neuron C application code to be downloaded over the network into Flash to be further tested. The user can then elect to replace the development node with a custom node, or simply leave the application code in Flash memory to fix the code into non-volatile storage without having to change the hardware. There are four transceiver options available:

- Transformer isolated, 1.25Mb/s, differential Manchester encoded with TPT/XF-1250
- Free topology, transformer isolated, 78Kb/s differential Manchester encoded with FTT-10A
- Free topology, 78Kb/s with LPT-10 for link power networks providing on board switched-mode power supply which takes power from the 42 volt twisted pair network
- RF – license exempt operation at 418, 433Mhz, 868Mhz and 916FCC\*
- Other transceiver types available on request e.g. direct connect.

These control modules include a Neuron 3150 chip, two sockets which support one of 27C256, 29C256, 29C257, 29C512 & 29C010 devices, a 32K SRAM chip, an LVI, a transceiver and connectors for power, I/O and the network. Physical size, connector pinouts and the mechanical fittings are all to Echelon's standard control module format for ease of interchangeability. This allows control modules to be swapped around to change communication speeds or transceivers, whilst the application interface remains identical.

**The modules have been designed to fully comply with the latest EMC rules and are shipped with M3 size mechanical pillars which should be bolted down to provide a good Ground connection and aid the dissipation of electrical energy for EMC compatibility.**

## Specification

For details and full explanation of how to use these products as well as mechanical information, please refer to the current "DV03 User Manual".



## Ordering Information

For example;

CNSDV03/FTT10 = Control Module with FTT10 transceiver

CNSDV03/FTT10U = UART Version with FTT10 transceiver

If you require the external programmable memory to be supplied and fitted by us please indicate what size memory and what memory map option you require, details in the latest DV03 User Manual, available from our web site.

## Contact Details

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