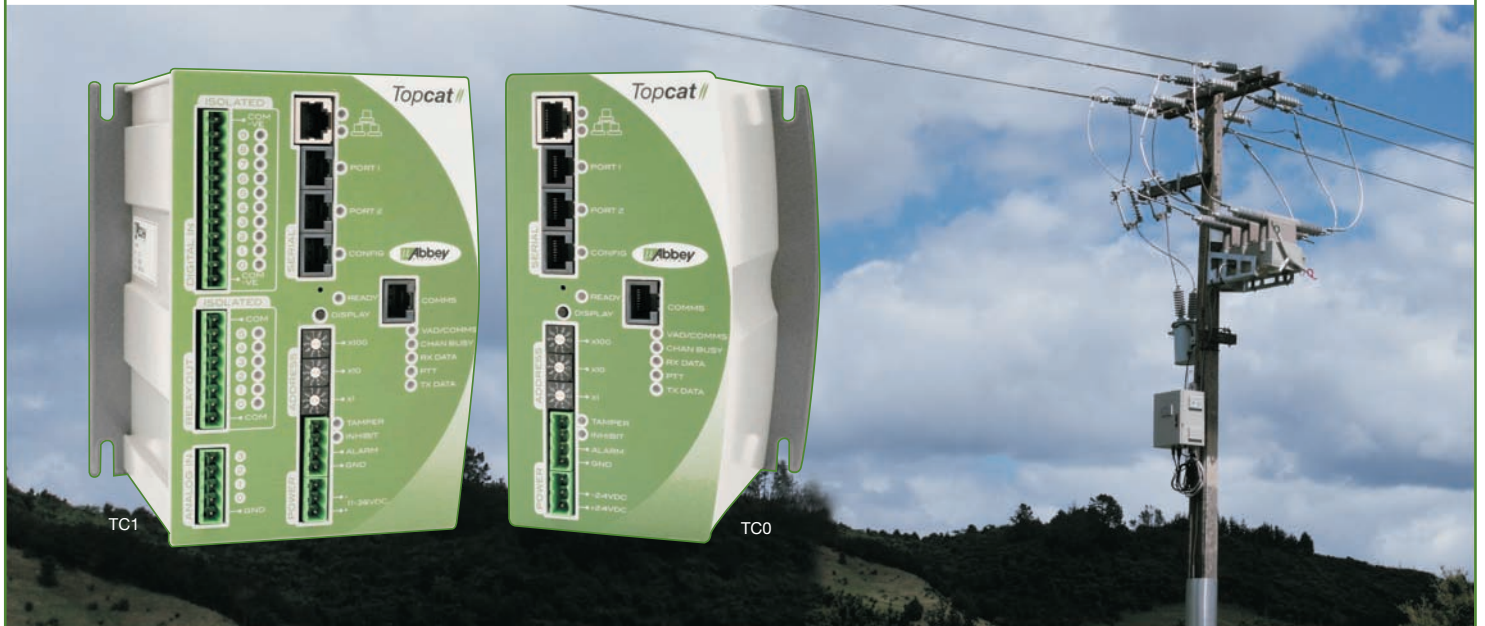
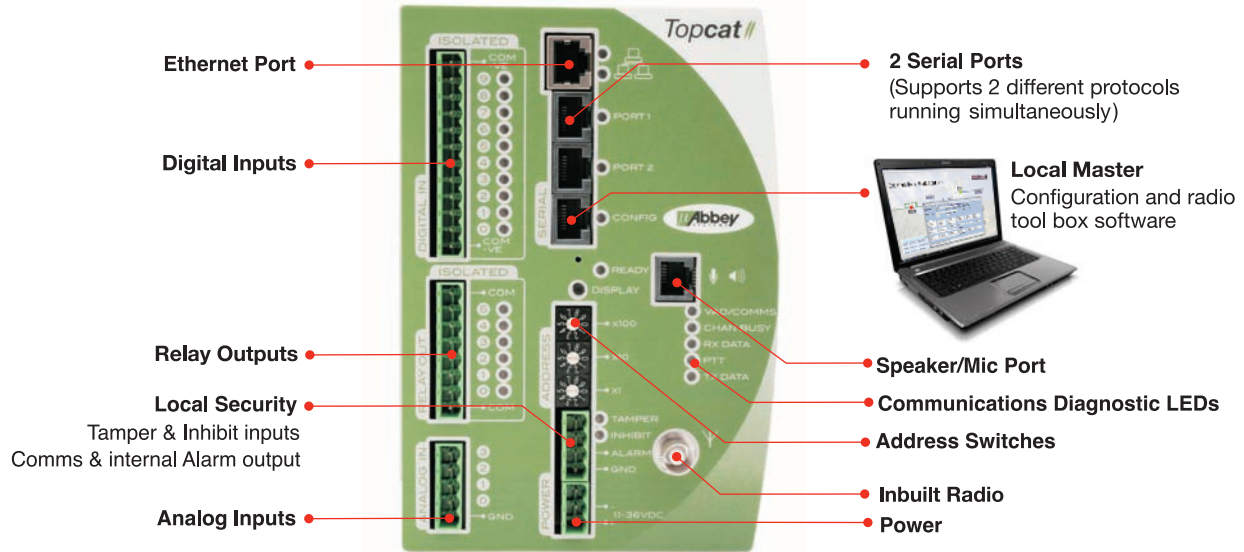


# Topcat



**Power industry  
feederline automation  
RTUs with high levels of  
electrical isolation for  
switch voltage regulator  
and small substation  
telemetry applications**

- ▶ Highly isolated I/O
- ▶ Multiple simultaneous protocols
- ▶ Internal/External radio option
- ▶ Cellular, Ethernet, Fibre Optic & Data Radio communications options
- ▶ Configure via laptop or over the communications network
- ▶ Inbuilt program logic & datalogging
- ▶ RFI shielding from aluminium enclosure



## I/O Capacity

Model	Digital in	Relay out	Analog in	Tamper in	Inhibit in	Alarm out	Inbuilt I/O	
							Status	Measurements
<b>TC1</b>	10 (4 pulse)	6	4	1	1	1	11	12
<b>TC0</b>	Via Serial Protocol only			1	1	1	11	12

## Specifications

Hardware	Communications Options	Firmware Capability	Options
<p><b>Processor</b> M32c 32bit CPU, 512k batt backed RAM</p> <p><b>Digital Inputs</b> Voltage activated, programmable Debounce, inversion and change of state Alarm 4 - 36VDC (default) 8 - 60VDC option (at time of order only) Inputs 0,1,2,3 for pulse count use</p> <p><b>Relay Outputs</b> N/O contact Rated voltage 240VAC/ 30VDC 6A Wetting 10mA Programmable pulsed or steady state output, pulse width, inversion, checkback. Output selftest</p> <p><b>Analog Inputs</b> 12 bit 0-20mA, 4-20mA Hardware and software filtering External source required</p> <p><b>Power</b> 11-36VDC max</p>	<p><b>Cellular</b> Enables cellular communication with the site via external modem</p> <p><b>5 watt VHF radio</b> 136-174MHz CTCSS 12.5/25kHz 16 channel programmable Adjustable power settings</p> <p><b>4 watt UHF radio</b> 400-470MHz, 450-530MHz CTCSS 12.5/25kHz 16 channel programmable Adjustable power settings</p> <p><b>External radio interface</b> (for higher power radios) Hi-Z unbalanced interface</p> <p><b>Ethernet</b> For IP radio or other ethernet connections</p>	<p><b>Slave protocols</b> Modbus DNP3 HDLC</p> <p><b>Master protocols</b> DNP3* Modbus* Allen-Bradley DF-1</p> <p><b>Programming (incl)</b> MPL programming language for logic capability</p> <p><b>Datalogging*</b> 25,000 time stamped events for later downloading &amp; display</p> <p><i>*Loaded as standard</i></p>	<p><b>Configuration software</b> Powerlink Local Master configuration software</p> <p><b>Fibre optic interfaces</b> (powered from Topcat) RS-232 &lt;&gt; glass / plastic POF RS-485 &lt;&gt; glass / plastic POF</p> <p><b>Converters</b> (powered from Topcat) RS-232/RS-485 for multi-dropped serial devices</p> <p><b>Analog Output module</b> 4 x 0-20mA 12bit Analog outputs Din mount external PCB</p> <p><b>Dimensions (mm)</b> <b>TC0</b> H165mm, W112mm, D123mm Weight 1.0kg <b>TC1</b> H165mm, W143mm, D123mm Weight 1.35kg</p>

Specifications may be subject to change without notice

### New Zealand

Abbey Systems Ltd  
L4, 220 Willis Street  
PO Box 27 497  
Wellington, New Zealand  
Ph +64 4 385 6611  
Fax +64 4 385 6848  
Email sales@abbey.co.nz  
www.abbey.co.nz

### United States

Abbey Systems, Inc  
3596 South 300 West, Unit 1  
Salt Lake City, Utah 84115, USA  
Ph +1 (801) 265 8911  
Fax +1 (801) 265 0789  
Mobile +1 (801) 699 3370  
Email barry@abbeysystems.com

