

TC-32

The TC-32 supports the following UL for Linux capabilities.

Analog Input

Channels:	0 to 31 0 to 63 if the TC-32-EXP is attached - see ulDevGetConfig()/DEV_CFG_HAS_EXP below
TIn flags:	TIN_FF_DEFAULT , TIN_FF_WAIT_FOR_NEW_DATA
TInArray Flags:	TINARRAY_FF_DEFAULT , TINARRAY_FF_WAIT_FOR_NEW_DATA
Functions:	ulTIn() , ulTInArray() , ulAIGetConfig() , ulAISetConfig()
Configuration:	Config Item (Get/Set): AI_CFG_CHAN_TC_TYPE , AI_CFG_CHAN_TYPE , AI_CFG_OTD_MODE , AI_CFG_REJECT_FREQ_TYPE , AI_CFG_CAL_TABLE_TYPE Config Item (Get): AI_CFG_CAL_DATE_STR , AI_CFG_EXP_CAL_DATE_STR

Digital I/O

Ports:	FIRSTPORTA , FIRSTPORTB SECONDPORTA , SECONDPORTB if the TC-32-EXP is attached - see ulDevGetConfig()/DEV_CFG_HAS_EXP below
Bits:	FIRSTPORTA: 0 to 7 FIRSTPORTB: 0 to 31 SECONDPORTA: 0 to 7 SECONDPORTB: 0 to 31
Functions:	ulDIn() , ulDOut() , ulDBitIn() , ulDBitOut() , ulDIOGetConfig() , ulDClearAlarm() Call ulDevGetConfig() with the DEV_CFG_HAS_EXP configItem to determine the number of valid digital ports.
Configuration:	Config Item (Get): DIO_CFG_PORT_DIRECTION_MASK

Device

Functions:	ulFlashLed() , ulMemRead() , ulMemWrite() , ulDevSetConfig() , ulDevGetConfig() , ulDevGetConfigStr()
Configuration:	Config Item (Get/Set): DEV_CFG_CONNECTION_CODE Config Item (Get): DEV_CFG_IP_ADDR_STR , DEV_CFG_NET_IFC_STR , DEV_CFG_HAS_EXP

Settings memory map

The settings memory map is provided for advanced applications which require device configuration. Note that default device settings are acceptable for most applications. If you need to change a device setting, however, the preferred method to use is InstaCal.

Address	Value	Default Value
0x00-0x01	Network options: Bit 0: 0 = DHCP enabled, 1 = DHCP disabled Bit 1: 0 = Auto IP enabled, 1 = Auto IP disabled Bit 2-15: reserved	0x0000
0x02-0x05	Default IPv4 address	192.168.0.101
0x06-0x09	Default IPv4 subnet mask	255.255.255.0
0x0A-0x0D	Default IPv4 gateway address	192.168.0.1
0x0E-0x0F	Reserved	
0x10-0x11	Reserved	
0x12-0x15	Connection code, 4 bytes	0x00000000
0x16-0x1F	Reserved	

Note: The settings do not take effect until after the device is reset or power cycled.

If you are unable to communicate with the device after changing the settings section of memory, refer to the *Restoring factory default settings* section of the device user's manual.