

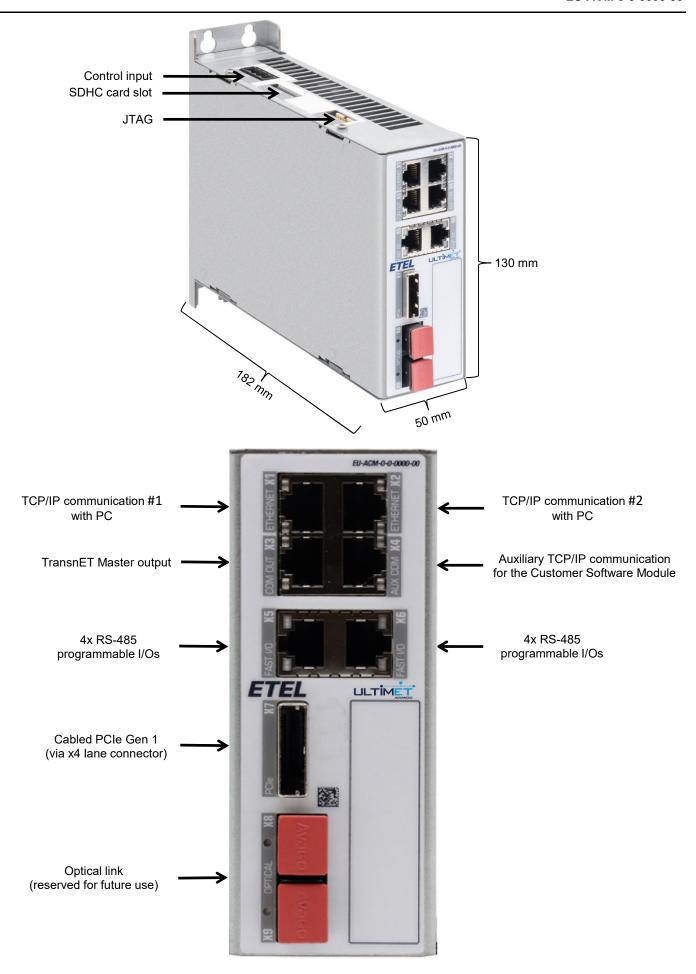
UltimET Advanced motion controller

EU-ACM-0-0-0000-00

HARDWARE CHARACTERISTICS	UNIT	
Input voltage	VDC	24 ± 10%
Power input	W	36
Weight	g	975

CON	ITROL FEATURES	
Movement types		Synchronized and interpolated
Number of supported interpolation group		2
Max number of degrees of freedom (DOFs) per interpolation group		4 (X, Y, Z, Theta)
Embedded set point generator		G-code, PVT, PT
On board I/Os		8x RS-485 fast digital I/Os (software programmable, SPI ready)
TransnET real-time communication bus		1 Gbps
TransnET cycle time		100 µs
Number of supported axes on TransnET		Up to 63
Traces with pre-/post-trigger function		Yes
Master/Slave data exchange		Real-time at 10kHz (including slave to slave communication capability)
User programmability		Customer Software Module (CSM) running internally as a FreeRTOS application
Opera Customer Develor Software Module Numb (CSM) Etherr Dedica	Language	C program linked to embedded EDI libraries
	Operating system	FreeRTOS
	Development environment	Xilinx SDK
	Number of dedicated cores	1 (ARM Cortex A53 at 1.3 GHz)
	Ethernet dedicated port	1x TCP/IP (1 Gbps)
	Dedicated SD card	1x (max. 32 GB)
	Debug port	JTAG and TCP/IP
Communication interface	To PC	2x TCP/IP (up to 1 Gbps) and 1x cabled PCIe Gen1 (2.5 Gbps)
	To AccounTT controllers	using a x4 lane connector
	To AccurET controllers	TransnET
Software /	ComET commissioning software	For commissioning / monitoring (for software compatibility, refer to the ComET manual)
	ETEL Device Interface (EDI)	DLL files for C / C++ / .NET (for software compatibility, refer to the EDI manual)
from host PC	Firmware update	Ethernet TCP/IP





© ETEL S.A. - Subject to modification without previous notice