

FMod-TCP BOX 1 vs FMod-TCP BOX 2 comparison

Hardware differences

	FMod-TCP BOX 1	FMod-TCP BOX 2
Extension connector pin 40 (Power output)	Current limited by the general polyfuse.	Current internally limited to 1A. Pin voltage drop if current max is exceeded without risk for the board.
Extension connector pin 17 (5V output)	Powered by board's 5V Vcc. An over current can reset the board.	Powered by a separated power supply. Internally limited to 300mA. Pin voltage drop if current max is exceeded without risk for the board.
Extension connector I2C bus	Provided through a Philips PCA9511AD driver chip.	Provided through a Philips PCA9514AD driver chip. ESD protection enhanced.
Extension connector Outputs	-	ESD protection enhanced.
Extension connector Inputs	-	ESD protection enhanced.
Fuse	-	Internal polyfuse replaced by a standard fuse (no more used for power pins over current protection).
Inverted supply protection.	-	A schottky diode has been added.

Firmware differences

	FMod-TCP BOX 1	FMod-TCP BOX 2
Type register	8.0	8.2
Version register	FW 1.x: 16bits.16bits FW version FW 2.x like FMod-TCP BOX 2	8bits.8bits HW version + 8bits.8bits FW version
New registers	FW 1.x - FW 2.x like FMod-TCP BOX 2	Time In Service Number of Power Ups