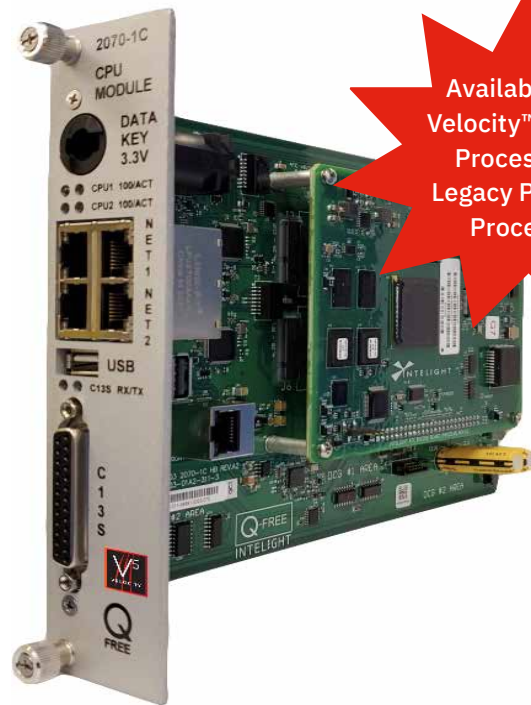# 2070-1C CPU MODULE

CPU CARRIER BOARD MODULE FOR 2070 CONTROLLERS

Available with Velocity™ V⁵ ARM Processor or Legacy PowerPC Processor

OVERVIEW

Upgrade your 2070 controller and maintain your existing infrastructure investment with the Q-Free 2070-1C module.

Take advantage of the current standards platform and Linux-based ATC controller software offerings with the 2070-1C, featuring:

- Open Linux OS architecture
- Runtime libraries per ATC5201 v06A
- Full support for all required ATC 5201 software drivers under the latest Linux kernel release v3.14 (LTS) and v4.19 (LTS)
- Environmentally hardened (operating ambient temperature from -40° to +80° C)

The Q-Free 2070-1C is compliant with the latest ATC5201 v06A specifications and Caltrans TEES2020.

FEATURES

The 2070-1C module consists of the 2070 slot carrier module with front panel support for

- 2070 standard 1X module
- 3.3v DataKeysocket
- 4x RJ45 Ethernet ports
- TEES compliant D type 25pin C13S port
- 1 USB port

ENGINE BOARD CPU MODULE OPTIONS

VELOCITY™ V⁵ ARM	LEGACY POWER PC
1.6 GHz quad-core ARM Cortex A53 CPU & 800 MHz ARM Cortex M7 coprocessor	NXP MPC8248, 32-bit, 400 MHz, PowerPC Instruction
Neural Processing Unit for AI/ML	–
4,096MB (4GB) DRAM	128MB DRAM
2MB SRAM	2MB SRAM
32,768MB (32GB) Flash Memory	64MB Flash Memory
7 serial ports (SP1-6, SP8)	7 serial ports (SP1-6, SP8)
RTC time reference	RTC time reference
Exceeds Caltrans TEES Functional Specifications	Meets Caltrans TEES Functional and Chip Set Specifications

www.q-free.com | info@q-free.com