

# Technical Specification

## VXC: Vocis Universal Controller



### Summary

Designed for automotive and off-highway production, suitable for applications with the highest level of functional safety

12V and 24V input voltages

NXP SafeAssure™ system core consisting of MPC5777C microprocessor and MC33FS6522 System-Basis Chip to provide an intrinsically safe architecture

### Environmental

-40°C to 85°C ambient temperature

Enclosure is IP6K9/ IP6K6 capable

Industry-standard 121-way connector

Dimensions 241 \* 258 \* 44 mm including mounting lugs and connector header

Ruggedized reverse polarity protection

### Inputs

6 analogue inputs, 4-20mA

8 analogue inputs with standard 0..5V range

16 Speed/Switch inputs capable of fast input capture

1 Ignition switch input

### Outputs

10 0-3A high-side drives – drive frequencies up to 1kHz

16 0-3A dual-side drives – drive frequencies up to 300Hz

Closed-loop current control available on all PWM output channels

### Automotive communications

4 CAN2.0b bus up to 1Mbit/s,

1 CAN-FD bus up to 2Mbit/s

Wake-on CAN capable

1 LIN Transceiver

### Other

Internal flash memory for datalogging

Ability to internally house RaspberryPi for data-processing for applications requiring a high degree of computational processing power

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For more information:

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