

DSPIC33CH128MP205T-I/PT





Part Number: [DSPIC33CH128MP205T-I/PT](#)

Manufacturer: [Micrel / Microchip Technology](#)

Description: 16 BIT DSC, DUAL CORE, 128K FLAS

Data sheet:  [dsPIC33CH128MP508 Family](#)

RoHs Status: Lead free / RoHS Compliant

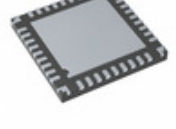
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| PRODUCT PARAMETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |                                  |                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------|
| Part Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DSPIC33CH128MP205T-I/PT                                            | Manufacturer                     | <a href="#">Micrel / Microchip Technology</a>                                                                  |
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16 BIT DSC, DUAL CORE, 128K FLAS                                   | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                     |
| Quantity Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22455 pcs                                                          | Data sheet                       | <a href="#">dsPIC33CH128MP508 Family</a>                                                                       |
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <a href="#">Integrated Circuits (ICs)</a>                          | Voltage - Supply (Vcc/Vdd)       | 3 V ~ 3.6 V                                                                                                    |
| Supplier Device Package                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 48-TQFP (7x7)                                                      | Speed                            | 180MHz, 200MHz                                                                                                 |
| Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | dsPIC™ 33CH                                                        | RAM Size                         | 20K x 8                                                                                                        |
| Program Memory Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FLASH/PRAM                                                         | Program Memory Size              | 152KB (152K x 8)                                                                                               |
| Peripherals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Brown-out Detect/Reset, DMA, Motor Control PWM, POR, PWM, QEI, WDT | Packaging                        | Tape & Reel (TR)                                                                                               |
| Package / Case                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 48-TQFP                                                            | Other Names                      | DSPIC33CH128MP205T-I/PTTR                                                                                      |
| Oscillator Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Internal                                                           | Operating Temperature            | -40°C ~ 85°C (TA)                                                                                              |
| Number of I/O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 39                                                                 | Moisture Sensitivity Level (MSL) | 3 (168 Hours)                                                                                                  |
| Manufacturer Standard Lead Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16 Weeks                                                           | Lead Free Status / RoHS Status   | Lead free / RoHS Compliant                                                                                     |
| EEPROM Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                  | Detailed Description             | dsPIC dsPIC™ 33CH Microcontroller IC 16-Bit Dual-Core 180MHz, 200MHz 152KB (152K x 8) FLASH/PRAM 48-TQFP (7x7) |
| Data Converters                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | A/D 31x12b, D/A 4x12b                                              | Core Size                        | 16-Bit Dual-Core                                                                                               |
| Core Processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | dsPIC                                                              | Connectivity                     | IPC, IrDA, LINbus, SPI, UART/USART                                                                             |
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|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------|
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|  | Part#: <a href="#">DSPIC33CH128MP206-E/MR</a><br>Description: 16 BIT DSC, DUAL CORE, 128K FLAS  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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|  | Part#: <a href="#">DSPIC33CH128MP502-E/2N</a><br>Description: 16 BIT DSC, DUAL CORE, 128K FLAS  | Manufacturers: <a href="#">Micrel / Microchip Technology</a> | <div>RFQ</div> |
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