Features

High performance with low power consumption options
Advanced RISC Architecture
131 Instructions over 80% execute in a single cycle
32 x 8 General purpose working registers
Up to 32MHz with 32 MIPS
Internal single cycle multiplier (8x8)
Non-Volitile program and data memory
32Kbytes On-chip programmable Flash Memory
2Kbytes SRAM
Programmable EEPROM supports byte access
Program encryption
Two independently prescaled 8 Bit timers
Input capture and output compare modes
Internal 32KHz oscillator for Real Time Clock function
Up to 9 PWM outputs, Programmable dead-band control
12 Bit High Speed ADC with up to 12 channels
    Optional internal or external voltage reference
    Programmable Gain Amplifier (X 1/8/16/32)
    Differential input channels
    Automatic threshold voltage monitoring mode
Internal 1.024V / 2.048V / 4.096V Reference +-1%
8 Bit programmable DAC
Watchdog timer
Synchronous and Asynchronous serial Interface
SPI with programmable master/slave TWI compatible
I2C with Master/Slave mode
16 Bit arithmetic accelerator unit (DSC)
SWD debug interface
POR built in power on reset circuit
LVD Low voltage detection circuit

8-bit LGT8XM

RISC Microcontroller with
In-System Programmable
FLASH Memory

LGT8F88P
LGT8F168P
LGT8F328P

Data book
Version 1.0.4 J

- **Packaging** QFP48/32L, SSOP20L
- **Power** 1uA@3.3V
- **Features**

Voltage	1.8V ~ 5.5V
Frequency	0 ~ 32MHz
Temperature	-40C ~ +85C
HMB ESD	> 4KV