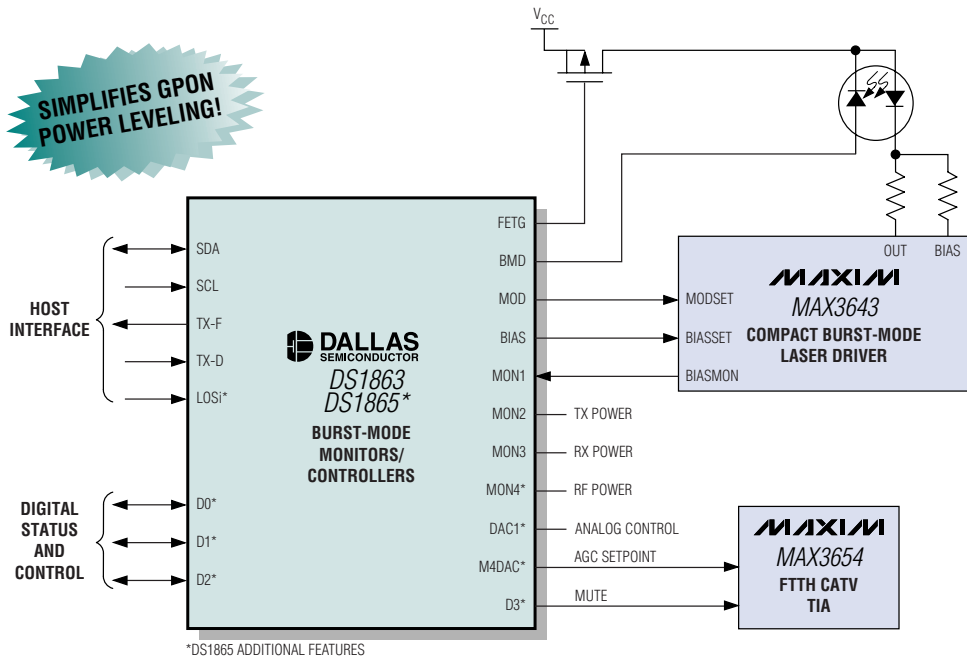


INDUSTRY'S ONLY INTEGRATED PON CONTROLLER/MONITORS

All Required Control and Monitor Functions Contained in a Single Chip

The DS1863 and DS1865* provide the highest performance PON triplexer and diplexer control/monitor solution available. With an integrated 13-bit DAC and 13-bit ADC, these devices are optimized for optical control and monitoring in a burst-mode environment. They simplify GPON power leveling by needing only a single register for adjustment. The DS1865's additional triplexer video-channel control and monitoring features reduce component count, simplify triplexer design, and minimize board space.



Feature	DS1863	DS1865
ADC Channels, Total (Internal)	5 (Temp, V _{CC})	6 (Temp, V _{CC})
DAC Channels, Total (Internal)	3 (APC Set)	5 (APC Set)
Laser Bias APC	✓	✓
Laser Modulation Current Temperature-Indexed Lookup Table (LUT)	✓	✓
Diplexer/Triplexer	Diplexer	Diplexer/Triplexer
I ² C Host Interface	✓	✓
Eye Safety	✓	✓
No. of GPIO and LOS Inputs	—	5
User EEPROM (Bytes)	128	256
Package	16-TSSOP	28-TQFN

*Future product—contact factory for availability.



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