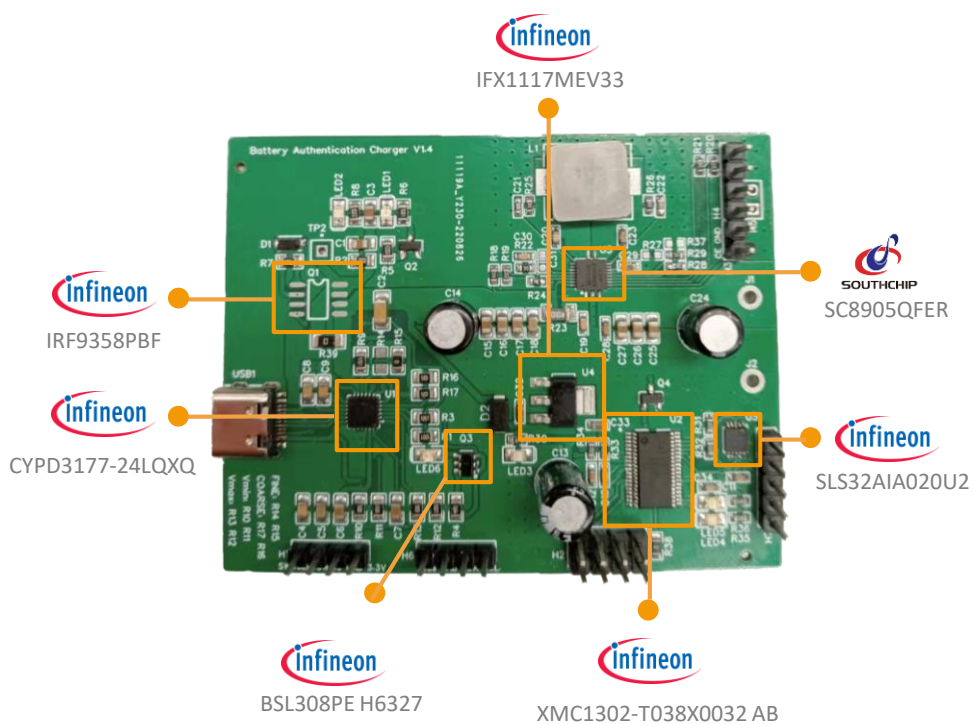
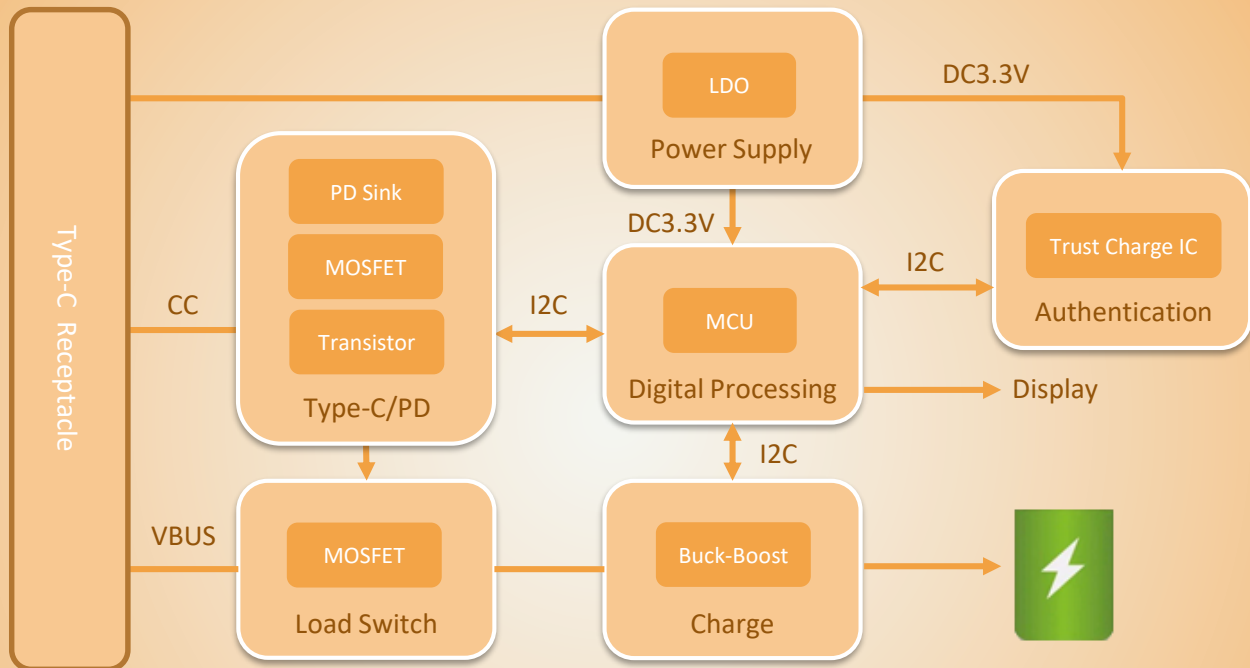




Zenitron Battery Authentication Charger Management





Zenitron Battery Authentication Charger Management

Part List

Block	Vendor	Part number	Description
Digital Processing		XMC1302-T038X0032 AB	High-performance 32-bit ARM Cortex-M0 32MHz CPU, 64K Flash, High control performance: 64MHz PWM, 1MS ADC and 25ns Comparators
Power Supply		IFX1117MEV33	Output voltage 3.3V or adjustable, 1.0A output current, Low drop voltage < 1.2V @ 800 mA, Operating range up to 15V
Authentication		SLS32AIA020U2	High-end security controller, CC EAL6+ (high) hardware, Turnkey solution, ECDSA P-256 authentication, NIST P-256, SHA-2 cryptography, Up to 10kB user memory, I2C serial communication
Type C/PD		CYPD3177-24LQXQ	Supports 5 USB PD PDOs (5V/9V/12V/15V/20V, up to 5A), no firmware development required.
		BSL308PE H6327	Small-Signal-Transistor, Dual P-channel, Enhancement mode, Logic level (4.5V rated), 30V, Rdson=80mΩ, Id=2A, PG-TSOP-6
Load Switch		IRF9358PBF	30V Dual P-Channel, Rdson=16.3mΩ, ID=9A, SO-8 package
Charge		SC8905QFER	High Efficiency, Synchronous, Bi-Directional Buck Boost Charger Converter with Four Integrated MOSFET, Wide VBAT Range: 2.7V to 22V, 25V sustainable, Wide VBUS Range: 2.7V to 22V, 25V sustainable

Solution Feature Description

1. Support USB Power Delivery (PD)
2. High integration (MCU+PD Controller+Buck battery charger)
3. Easy control charging management (I2C)
4. Up to 4 Series cell batteries
5. Hardware-based Secure (with OPTIGA™ Trust Charge)

Specification Description

1. Power: USB Type-C (PD: 9V/3A)
2. Certifications: CC EAL6+ high for HW
3. Cryptography: can support ECC 256-bit ; ECC 384-bit
4. Support: UVP/OCP/OVP/ Short Protection/Thermal Shutdown Protection
5. Voltage input: 5~20VDC

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