

Nessum WIRE vs. Ethernet / SPE(Single Pair Ethernet)

	Nessum	Ethernet	SPE (Single Pair Ethernet)			
	Nessum WIRE	1000BASE-T	10BASE-T1S	10BASE-T1L	100BASE-T1	1000BASE-T1
Standard	IEEE 1901	IEEE 802.3ab	IEEE 802.3cg	IEEE 802.3cg	IEEE 802.3bw	IEEE 802.3bp
Communication Speed	Several to tens of Mbps ^(*)	1 Gbps	10 Mbps	10 Mbps	100 Mbps	1 Gbps
Connection	Point-to-Multipoint (Free Topology, 1,024 nodes)	Point-to-Point	Point-to-Point or Point-to-Multipoint (Multidrop, 8 nodes)	Point-to-Point	Point-to-Point	Point-to-Point
Communication Distance	Several km ^(*)	100 m	25 m	1,000 m	15 m (UTP) 40 m (STP)	15 m (UTP) 40 m (STP)
Transmission	Half Duplex	Full Duplex	Half Duplex	Full Duplex	Full Duplex	Full Duplex
Cable	Any type of cable (No new wiring)	Ethernet cable (Cat 5)	SPE cable	SPE cable	SPE cable	SPE cable

* Depends on the type of cable and communication environment