

- **Speeds from 2 Mbit/s to 10 Gbit/s**
- **Availability 99,99 % when using redundancy**
- **Transmission through GlobalConnects countrywide fibre network**
- **Optional redundancy with auto-failover in less than 50 ms**
- **Preferred transmission type for many PBX's**

SDH is the industry standard for circuit-switched transmission and it has proved its worth in practice for decades. GlobalConnect has implemented SDH across our entire countrywide fibre network, and we are therefore able to offer this technology throughout the network.

## Redundancy

Even though the operating stability of the SDH platform is the highest in the industry, it could still be relevant to protect against physical fibre breakdown through redundancies. GlobalConnect offers two redundancy schemes, each one offering two completely independent routes through the network. Both routes are capable of carrying the full capacity of the connection (see Figure 1).

- Auto-failover

The connection is automatically re-routed to the alternative route within 50 ms. Established circuits are unaffected by the switch and there is no capacity degradation.

- Full Diversity

The two alternatively routed circuits are terminated in two separate switches at each address. Both circuits are available during normal operation. By using both circuits simultaneously, twice the capacity is achieved. If one circuit fails, your equipment must re-route all traffic to the working circuit.

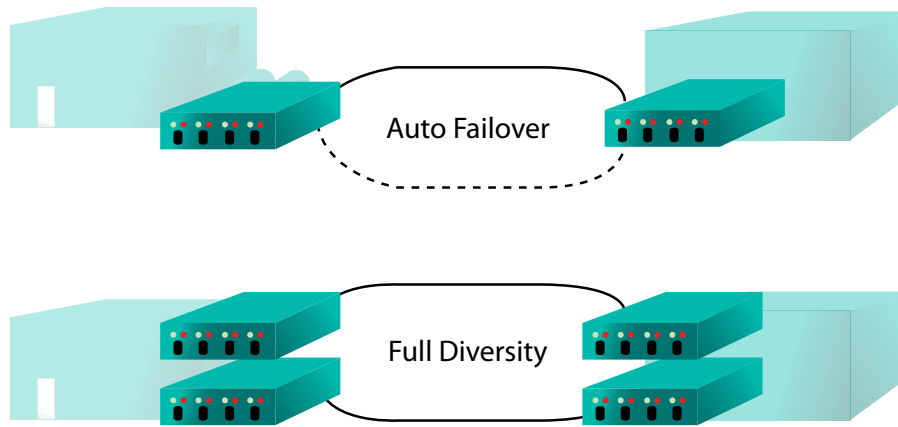
## Speeds

The total data rate between two ports is managed by the number of so-called virtual containers, called VC-12, VC-3, or VC-4, according to their corresponding Speeds. Thus speed is adjustable without changing the number of physical ports.

Normally, the speed is matched to the port type according to the table below:

Fysisk interface	Virtual container	Kapacitet
STM-64	VC4-64	10 Gbit/s
STM-16	VC4-16/VC4-16c	2,4 Gbit/s
STM-4	VC4-4/VC4-4c	622 Mbit/s
STM-1	VC-4	140 Mbit/s
DS-3	VC-3	45 Mbit/s
E3	VC-3	34 Mbit/s
E1	VC-12	2 Mbit/s

# Technical Data



**Figure 1:** Optional redundancy using either auto failover or full diversity.

Standards	ITU-T G.707, G.781, G.782, G.783, G.703
Interfaces	SNC/N
SDH protection type at auto failover	STM-64, STM-16, STM-4, STM-1, DS-3, E3, E1
Auto failover, switching time	50 ms
Customer interface, fibre	1310 nm single mode patch cable with SC/PC or LC/PC connector in patch panel
Customer interface, cobber	RJ-45, LSA or BNC
Availability	99,99% with redundancy 99,7% without redundancy
Overvågning	24x7x365

