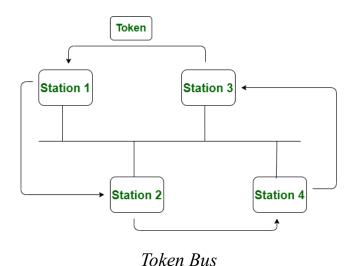
## Difference between Token Bus and Token Ring Network

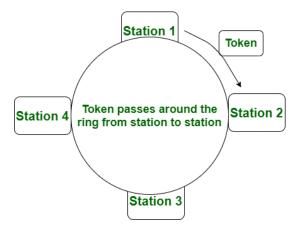
## **Token Bus**

- Token Bus network is a standard in which tokens are passed along a virtual ring.
- In the token bus network bus topology is used as physical media.
- virtual ring is created with stations and therefore tokens are subsequently passed from a station during a sequence with this virtual ring.
- Every station or node in the token bus network knows the address of its predecessor station and its successor station.
- A node (station) can transmit the data if and only if it has a token. Its working rule is analogous to the token ring network.



## **Token Ring**

- **Token Ring** is defined by the IEEE 802.5 standard.
- In the token ring network, the token is passed over a physical ring instead of a virtual ring.
- Token is a special frame and a station can transmit the data frame if and only if it has a token. And The tokens are issued on successful receipt of the data frame.



Token Ring

## Difference between the Token Bus and the Token Ring:

S.	Token Bus Network	Token Ring Network
No.		
1.	In the token bus network, the token is	While in the token ring network the
	passed along a virtual ring.	token is passed over a physical ring.
2.	The token bus network is simply	While the token ring network is
	designed for large factories.	designed for the offices.
3.	The token bus network is defined by	While the token ring network is defined
	the IEEE 802.4 standard.	by the IEEE 802.5 standard.
4.	Token bus network provides better	While the token ring network does not
	bandwidth.	provide better bandwidth as compared to
		the token bus.
5.	In a token bus network, Bus topology	While in token ring network, Star
	is used.	topology is used.
6.	The maximum time it takes to reach the	While the maximum time to reach the
	last station in a token bus network	last station in the token ring network can
	cannot be calculated.	be calculated.
7	In a token bus network, coaxial cable is	In token ring network, twisted pair and
	used	fiber optic is used.
8	In a token bus network, the cable	In a token ring network, the cable length
	length is 200m to 500m.	is 50m to 1000m.
9.	In token bus network, distributed	In a token ring network, a designated
	algorithm provide maintenance.	monitor station performs station
10		maintenance.
10.	The priority handling mechanism is not	The priority handling mechanism is
	associated with the transmission of data	associated with the transmission of data
	through workstations with this network.	through workstations with this network.
11.	These networks are not much reliable.	These networks are reliable.
12.		
13.	It does not keep routing details.	It keeps the information of routing.  It is expensive.
13.	The network is less expensive	it is expensive.
	compared to the Token Ring network.	